DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				MIL-STD-2525B,				
				Common Warfighting				
				Symbology, 30				
Human-Computer				January 1999.	Component			
Interface Standards	Symbology			,	Framework	Data Interchange	Data Exchange	Computer Graphics
	, 0,			MIL-STD-6016B,			Ĭ.	· ·
				Tactical Digital				
Information Modeling,				Information Link				
Metadata, and				(TADIL) J Message				
Information		Tactical Information	Bit-Oriented	Standard, 1 August	Component			Tactical Information
Exchange	Information Exchange	Exchange	Formatted Messages	2002.	Framework	Data Interchange	Data Exchange	Exchange
	Ŭ			STANAG 5516,			, and the second	Ĭ
Information Modeling,				Edition 2, Tactical				
Metadata, and				Data Exchange –				
Information		Tactical Information	Bit-Oriented	LINK 16, Ratified 10	Component			Tactical Information
Exchange	Information Exchange		Formatted Messages	November 1998.	Framework	Data Interchange	Data Exchange	Exchange
	mormation Exertaings	_xonango	. cimanea meesagee	Variable Message	· ramonom	2 ata merenange	Data Exertainge	Zitoriarigo
				Format (VMF),				
Information Modeling,				Technical Interface				
Metadata, and				Design Plan (Test				
Information		Tactical Information	Bit-Oriented	Edition) Reissue 5, 18	Component			Tactical Information
Exchange	Information Exchange		Formatted Messages		Framework	Data Interchange	Data Exchange	Exchange
Exonarigo	miorination Exchange	Exonarigo	T Offilation Mossages	STANAG 5522,	Tranicwork	Data Interoriange	Data Exchange	Exonarigo
				Edition 1, Tactical				
				Data Exchange –				
				LINK 22 (September				
				2001) is the				
				Multinational Group				
				'				
				(MG) agreed				
				Configuration				
				Management (CM)				
				baseline document as				
				of 15 September				
Information Modeling,				1995. It is distributed				
Metadata, and		T 11 6	D'' O '	as ADSIA (DKWG)-				T 0 11 6 0
Information		Tactical Information	Bit-Oriented	RCU-C-74-95.	Component		5 . 5 .	Tactical Information
Exchange	Information Exchange	Exchange	Formatted Messages	OTD 0040	Framework	Data Interchange	Data Exchange	Exchange
lafa ana ati an Maral P				MIL-STD-6040,				
Information Modeling,				United States				
Metadata, and		T 0 11 6 0	0	Message Text Format				T 0 11 4 0
Information		Tactical Information	Character-Based	(USMTF), 31 March	Component	D	D . E .	Tactical Information
Exchange	Information Exchange	Exchange	Formatted Messages	2002.	Framework	Data Interchange	Data Exchange	Exchange
				ANSI/IEEE 754-1985,				
				IEEE Standard for				
Information Modeling,				Binary Floating-Point				
Metadata, and				Arithmetic, March 21,				
Information		Tactical Information	Binary Floating-Point	1985.	Component			Tactical Information
Exchange	Information Exchange	Exchange	Data Interchange		Framework	Data Interchange	Data Exchange	Exchange

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	•	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				IBS Technical				
Information Modeling,				Interface Design Plan				
Metadata, and				(TIDP).				
Information		Tactical Information	Bit-Oriented		Component			Tactical Information
Exchange	Information Exchange	Exchange	Formatted Messages		Framework	Data Interchange	Data Exchange	Exchange
				IEEE 1320.1:1998,				
				IEEE Standard for				
Information Modeling,				Functional Modeling				
Metadata, and				Language-Syntax and				
Information				Semantics for IDEF0.	Service Platform and	0.6. = 1		IDEE0
Exchange	Information Modeling	Activity Model			Infrastructure	Software Engineering	Modeling	IDEF0
				ISO/IEC 11179, Part				
Information Modeling,				3 (DRAFT), Basic				
Metadata, and				attributes of data	0 1 01 1			
Information				elements, 19 October		0.6		5
Exchange	Information Modeling	Data Architecture		2001.	Infrastructure	Software Engineering	Modeling	Data Architecture
				FIPS PUB 184,				
Information Modeling,				Integration Definition				
Metadata, and				for Information	Ormital Distance and			
Information	Undamantina Madalia	Data Madal		Modeling (IDEF1X),	Service Platform and	0-6	Maria da Caras	IDEEAV
Exchange	Information Modeling	Data Model		December 1993.	Infrastructure	Software Engineering	Modeling	IDEF1X
				IEEE 1320.2:1998, IEEE Standard				
				Conceptual Modeling				
Information Modeling,				Language-Syntax and				
Metadata, and				Semantics for IDEF1X97 (IDEF				
Information				,	Service Platform and			
	Information Modeling	Data Model		object).	Infrastructure	Software Engineering	Modeling	IDEF1X97
LACHANGE	inionnation wodeling	Data Model		Object Management	illiastructure	Software Engineering	Modeling	IDEI IX91
				Group (OMG) Unified				
				Modeling Language				
Information Modeling,				(UML) Specification,				
Metadata, and				Version 1.4,				
Information				September 2001.	Service Platform and			Unified Modeling
	Information Modeling	Object Modeling		Deptember 2001.	Infrastructure	Software Engineering	Modeling	Language (UML)
Exchange	miorination Modeling	Object Wedowing		XML Metadata	iiii ada ada a	Contraro Engineening	Modelling	Languago (OML)
				Interchange (XMI),				
Information Modeling,				Version 1.1, ad/99-10-				
Metadata, and				22, 25 October 1999.				
Information				,	Component			
	Information Modeling	Object Modeling			Framework	Data Interchange	Data Exchange	XMI
	g	,		XML Metadata				1
				Interchange (XMI),				
Information Modeling,				Version 1.1 –				
Metadata, and				Appendices, ad/99-10-]			
Information				13, 25 October 1999.	Component			
		ı	1	1.5, _0 000000 1000.				

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				ISO/IEC 11172-				
				3:1993, Information				
				technology - Coding				
				of moving pictures				
				and associated audio				
				for digital storage				
				media at up to about				
				1.5 Mbit/s – Part 3				
				(Audio Layer-3 only);				
				with Technical				
Information	Data Interchange	Audio Data		Corrigendum 1:1996.	Component			Digital Audio and
Processing	Services	Interchange		Comgenaum 1.1550.	Framework	Data Interchange	Data Exchange	Video
Tocessing	Oct vices	interchange		ISO/IEC 13818-	Tamework	Data interchange	Data Exchange	Video
				3:1998, Information				
				technology – Generic				
				coding of moving				
				pictures and				
Information	Data Interchange	Audio Doto	Audio Associated	associated audio	Component			Digital Audia and
Information	Data Interchange	Audio Data		information, Part 3:	Component	Data Intereliana	Data Freshause	Digital Audio and
Processing	Services	Interchange	with Motion Imagery	Audio: 1998.	Framework	Data Interchange	Data Exchange	Video
				ANSI S4.40-				
				1992/AES3:1992,				
				AES (Audio				
				Engineering Society)				
				Recommended				
				Practice for Digital				
				Audio Engineering –				
				Serial transmission				
				format for two-				
				channel linearly				
				represented digital				
				audio data, 1992				
				(reaffirmed and				
Information	Data Interchange	Audio Data		amended 1997). (BEA	Component			Digital Audio and
Processing	Services	Interchange		TV)	Framework	Data Interchange	Data Exchange	Video
				Analog-to-Digital			· ·	
				Conversion of Voice				
				by 1200 Bit/Second				
				Mixed Excitation				
Information	Data Interchange	Audio Data		Linear Prediction	Component			
Processing	Services	Interchange	Voice Encoder	(MELP).	Framework	Data Interchange	Data Exchange	Voice Encoder
. 100000111g	COLAIOCO	interoriariye	V SIGG ETIGOGET	MIL-STD-3005,	. ramowork	Data intoronarige	Data Exoriariye	VOICE ETIOUGET
				Analog-to-Digital				
				Conversion of Voice				
				by 2400 Bit/Second				
				Mixed Excitation				
la fa ana a ti a	Data lata	Accelled Devi		Linear Prediction	0			
Information	Data Interchange	Audio Data		(MELP), 20	Component	D	D . E .	
Processing	Services	Interchange	Voice Encoder	December 1999.	Framework	Data Interchange	Data Exchange	Voice Encoder

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				ANSI X3.30-1997:		3	3	
				Representation of				
Information	Data Interchange	Calendaring and		Date for Information	Component			
Processing	Services	Scheduling		Interchange.	Framework	Data Interchange	Data Exchange	Internationalization
•				C321, Calendaring				
				and Scheduling API				
				(XCS), Open Group				
				Technical Standard,				
Information	Data Interchange	Calendaring and		ISBN 1-85912-076-8,	Component			
Processing	Services	Scheduling		April 1995.	Framework	Data Interchange	Data Exchange	Internationalization
		i i		ISO 9660:1988,			, and the second	
				Information				
				processing - Volume				
				and file structure of				
				CD-ROM for				
Information	Data Interchange	Data Interchange		information	Component			
Processing	Services	Storage Media		interchange.	Framework	Data Interchange	Data Exchange	Digital Media
				ISMA Specification				J
				1.0:2001, Internet				
Information	Data Interchange	Data Interchange		Streaming Media	Component			
Processing	Services	Storage Media		Alliance.	Framework	Data Interchange	Data Exchange	Digital Media
	00.1.000	otorago modia		HTML 4.01	· ramonom	- Lata interestarige	2 dia 2 nonango	2 igital moula
				Specification, W3C				
Information	Data Interchange	Document		Recommendation, 24	Component	Presentation /		Hyper Text Markup
Processing	Services	Interchange		December 1999.	Framework	Interface	Static Display	Language (HTML)
rrocconig	00111000	intoronango		ISO 8879:1986,	ramowork	Interiace	Ctatio Biopiay	Languago (ITTML)
				Information				
				processing - Text and				
				office systems –				
				Standard Generalized				
				Markup Language				
				(SGML) with				
				Amendment 1, 1988,				
				Technical				
				Corrigendum 1:1996				
				and Technical				
Information	Data Interchange	Document		Corrigendum 2:1999.	Component	Presentation /		Standard Generalized
Processing	Services	Interchange		(BEA TV)	Framework	Interface	Static Display	Markup Language
riocessing	Oct vices	interchange		XHTML™ 1.0: The	Tamework	Interface	Static Display	Markup Language
				Extensible HyperText				
				Markup Language,				
				Second Edition, A				
				Reformulation of				
				HTML 4 in XML 1.0,				
				W3C				
				Recommendation, 26				
				January 2000, revised				
				1 August 2002.				1
Information	Data Interchange	Document			Component	Presentation /		eXtensible HTML
Processing	Services	Interchange			Framework	Interface	Content Rendering	(XHTML)

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	•	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				Cascading Style				
				Sheets (CSS) Level 1				
				(CSS1), W3C				
Information	Data Interchange	Document		Recommendation, 17	Component	Presentation /		Cascading Style
Processing	Services	Interchange		December 1996.	Framework	Interface	Content Rendering	Sheets (CSS)
				XQuery 1.0, An XML			<u> </u>	,
				Query Language,				
Information	Data Interchange	Document		W3C Working Draft,	Component			
Processing	Services	Interchange		15 November 2002.	Framework	Data Interchange	Data Exchange	XQuery
				XML Path Language				1
				(XPATH), Version 1.0				
				W3C	,			
Information	Data Interchange	Document		Recommendation, 16	Component			
Processing	Services	Interchange		November 1999.	Framework	Data Interchange	Data Exchange	XML Path Language
1 Tocessing	Dervices	interchange		XML-Signature	Tamework	Data interchange	Data Exchange	AWIL I atti Language
				Syntax and				
				Processing, W3C				
Information	Data Interchange	Document		Recommendation, 12	Component			
	Services			, ·	Framework	Data Interchange	Doto Evolungo	VMI Digital Signatura
Processing	Services	Interchange		February 2002.	riamework	Data Interchange	Data Exchange	XML Digital Signature
				Document Object				
				Model (DOM) Level 1				
				Specification, Version				
				1.0, W3C				
Information	Data Interchange	Document		Recommendation, 1	Component			Document Object
Processing	Services	Interchange		October 1998.	Framework	Data Interchange	Data Exchange	Model
				XForms 1.0, W3C				
Information	Data Interchange	Document		Working Draft, 12	Component			
Processing	Services	Interchange		November 2002.	Framework	Data Interchange	Data Exchange	XML Forms
				XForms				
				Requirements, W3C				
Information	Data Interchange	Document		Working Draft, 4 April				
Processing	Services	Interchange		2001.	Framework	Data Interchange	Data Exchange	XML Forms
				Simple Object Access				
				Protocol (SOAP) 1.1,				
Information	Data Interchange	Document		W3C Note, 08 May	Component			Simple Object Access
Processing	Services	Interchange		2000.	Framework	Data Interchange	Data Exchange	Protocol (SOAP)
Toocoomy								
				Resource Description				
				Framework (RDF)				
				Schema Specification				
				1.0, W3C Candidate				
				Recommendation, 27				
Information	Data Interchange	Document		March 2000, CR-rdf-	Component			Resource Description
Processing	Services	Interchange		schema-20000327.	Framework	Data Interchange	Data Exchange	Framework (RDF)

DISR IT Category	DISR Service Area	DISR Service Sub-	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				Extensible Markup				
				Language (XML) 1.0				
				(Second Edition),				
				W3C				
Information	Data Interchange	Document		Recommendation, 6	Service Interface and		Data Format /	eXtensible Markup
Processing	Services	Interchange		October 2000.	Integration	Interoperability	Classification	Language (XML)
				Namespaces in XML,				
				W3C				
Information	Data Interchange	Document		Recommendation, 14	Service Interface and		Data Format /	
Processing	Services	Interchange		January 1999.	Integration	Interoperability	Classification	Namespaces
				XML Schema Part 1:				
				Structures, W3C				
Information	Data Interchange	Document		Recommendation, 2	Service Interface and	l	Data Types /	
Processing	Services	Interchange		May 2001.	Integration	Interoperability	Validation	XML Schema
				XML Schema Part 2:				
				Datatypes, W3C				
Information	Data Interchange	Document		Recommendation, 2	Service Interface and	l	Data Types /	
Processing	Services	Interchange		May 2001.	Integration	Interoperability	Validation	XML Schema
				Extensible Stylesheet				
				Language (XSL),				
				Version 1.0, W3C				
				Recommendation, 15				eXtensible Stylesheet
Information	Data Interchange	Document		October 2001.	Service Interface and			Language Transform
Processing	Services	Interchange			Integration	Interoperability	Data Transformation	(XSLT)
				XSL Transformations				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
				(XSLT), Version 1.1,				eXtensible Stylesheet
Information	Data Interchange	Document		W3C Working Draft,	Service Interface and		5 · 7 · /	Language Transform
Processing	Services	Interchange		24 August 2001.	Integration	Interoperability	Data Transformation	(XSLT)
				UDDI Version 3.0				
				Published				Universal Description
Information	Data Interchange	Document		Specification, 19 July	Service Interface and		0 . D.	Discovery and
Processing	Services	Interchange		2002.	Integration	Interface	Service Discovery	Integration (UDDI)
				Interoperable				
Information	Data Interchange	Document		Intelligent Agents	Service Interface and		0 . 0:	
Processing	Services	Interchange		(NCOW RM TTV)	Integration	Interface	Service Discovery	Intelligent Agents
				Web Services				
				Description Language				
l = f = === = t! = ==	Data latavalaria	D		(WSDL) 1.1, W3C	O a mail a sa disabatanta a a a sa al		O-miles D-sedeties /	Web Services
Information	Data Interchange	Document		Note, 15 March 2001.		lata da a a	Service Description /	Description Language
Processing	Services	Interchange		MIL-STD-2411,	Integration	Interface	Interface	(WSDL)
				· ·				
				Raster Product				
				Format, 6 October				
				1994; with Notice of		1		
				Change, Notice 1, 17		1		
				January 1995, and				
l., f., ti	Data latarahan	Facilities and state I.D. :	Oti-l D-t-	Notice of Change,	0			
Information	Data Interchange	Environmental Data	Geospatial Data	Notice 2, 16 August	Component	Data lata sahasi	Data Freshause	0
Processing	Services	Interchange	Interchange	2001.	Framework	Data Interchange	Data Exchange	Computer Graphics

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
		70		MIL-STD-2407,		- Canagary	- June go. j	
				Interface Standard for				
				Vector Product				
				Format (VPF), 28				
				June 1996, with				
				Notice of Change,				
Information	Data Interchange	Environmental Data	Geospatial Data	Notice 1, 26 October	Component			
Processing	Services	Interchange	Interchange	1999.	Framework	Data Interchange	Data Exchange	Computer Graphics
				Hierarchical Data				
				Format (HDF),				
				Version 5, Release				
				1.4.2, National Center	•			
				for Super Computing				
			Atmospheric and	Applications, 4				
Information	Data Interchange	Environmental Data	Oceanographic Data	October 2001.	Component			
Processing	Services	Interchange	Interchange		Framework	Data Interchange	Data Exchange	Computer Graphics
				FIPS PUB 10-4,				
				Countries,				
				Dependencies, Areas				
				of Special				
				Sovereignty, and				
				Their Principal				
				Administrative				
				Divisions, April 1995				
				as modified by				
				Change Notice No. 1,				
				1 December 1998;				
				Change Notice 2, 1				
				March 1999; Change				
				Notice No. 3, 1 May				
				1999; Change Notice				
				No. 4, 25 February				
				2000; Change Notice				
				No. 5, 10 August				
				2000; Change Notice				
				No. 6, 28 January				
				2001, and Change				
				Notice No. 7, 10				
Information	Data Interchance	Environmental Data	Coconctial Data	January 2002.	Component			
	Data Interchange	Environmental Data	Geospatial Data		Component	Data Interchance	Data Evahangs	Internationalization
Processing	Services	Interchange	Interchange	FM 92-X Ext. GRIB	Framework	Data Interchange	Data Exchange	Internationalization
				WMO No. 306,				
				Manual on Codes,				
				International Codes,				
				· ·				
			Atmospheric and	Volume 1.2 (Annex II				
Information	Data Interchance	Environmental Data	' '	to WMO Technical	Component			
Information Processing	Data Interchange		Oceanographic Data	Regulations) Parts B	Component	Data Interchange	Data Evahanaa	Internationalization
Processing	Services	Interchange	Interchange	and C.	Framework	Data Interchange	Data Exchange	Internationalization

DISR IT Category	DISR Service Area	DISR Service Sub-	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service	FEA Service Sub-	FEA Standard Area
		Area		EMOAYE : DUES	-	Category	Category	
				FM 94-X Ext. BUFR				
				WMO No. 306,				
				Manual on Codes,				
				International Codes,				
			Atmoorphoric and	Volume 1.2 (Annex II				
m f = m = = +! = =	Data Interchange	Environmental Data	Atmospheric and	to WMO Technical	Commonant			
Information	Data Interchange		Oceanographic Data	Regulations) Parts B	Component	Data Interchange	Data Evahanga	Internationalization
Processing	Services	Interchange	Interchange	and C. MIL-STD-2401,	Framework	Data Interchange	Data Exchange	Internationalization
				Department of				
				Defense Standard				
				Practice, World				
				Geodetic System				
				(WGS), 11 January				
				1994, as implemented				
				by NIMA TR 8350.2,				
				Department of				
				Defense World				
				Geodetic System				
				1984: Its Definitions				
				and Relationships				
				with Local Geodetic				
				Systems, Third				
				Edition, 4 July 1997,				
				as modified by				
				Amendment 1, 3				
Information	Data Interchange	Environmental Data	Geospatial Data	January 2000.	Component			
Processing	Services	Interchange	Interchange	January 2000.	Framework	Data Interchange	Data Exchange	Spatial Imagery
1 TOOCSSIIIIg	CCIVICCS	interenange	interonarige	ISO/IEC 18023,	Traniowork	Data interentinge	Data Exchange	Opatial imagery
				Information				
				technology –				
				Computer graphics				
				and image processing				
				- Synthetic				
				Environment Data				
				Representation and				
				Interchange				
				Specification				
				(SEDRIS), 5				
Information	Data Interchange	Environmental Data		December 2001.	Component			
Processing	Services	Interchange		2000201	Framework	Data Interchange	Data Exchange	Spatial Imagery
				ISO/IEC 18025:	,	2.12. 1.112. 0.10.190	2	
				Information				
				technology –				
				Computer graphics				
				and image processing				
				Environmental Data				
				Coding Specification				
				(EDCS), 26				
	Data Interchange	Environmental Data		December 2002.	Component		1	
nformation	II Jata Interchance	IEDVIODIMENTAL DATA						

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				ISO/IEC 18026:				
				Information				
				technology -				
				Computer graphics				
				and image processing				
				 Spatial Reference 				
				Model (SRM), 14				
Information	Data Interchange	Environmental Data		January 2002.	Component			
Processing	Services	Interchange			Framework	Data Interchange	Data Exchange	Spatial Imagery
<u> </u>		Ŭ		JPEG File				
				Interchange Format,				
				Version 1.02,				
				September 1, 1992, C				
Information	Data Interchange	Graphics Data		Cube Microsystems.	Component			
Processing	Services	Interchange			Framework	Data Interchange	Data Exchange	Computer Graphics
J		J -		Graphics Interchange		1 1 1 1 1 1 1 1 1		1
1				Format (GIF), Version				
				89a, CompuServe				
				Incorporated, 31 July				
Information	Data Interchange	Graphics Data		1990.	Component			
Processing	Services	Interchange			Framework	Data Interchange	Data Exchange	Computer Graphics
	00.1.000	niter errainge		ISO/IEC 14772-	· ramonom	2 ata interenange	Zata Zhonango	Compator Crapinos
				1:1998, Information				
				technology –				
				Computer graphics				
				and image processing				
				The Virtual Reality				
				Modeling Language				
				(VRML) – Part 1:				
				Functional				
				specification and UTF				
Information	Data Interchange	Graphics Data			Component			
	Services			8 encoding.	Framework	Data Interchange	Data Exchange	Computer Graphics
Processing	Services	Interchange		ISO/IEC 15948:2000,	FIGHTEWOIK	Data interchange	Data Exchange	Computer Graphics
				•				
				Portable Network				
				Graphics (PNG):				
				Functional				
				Specification Final				
la fa ma a ti a	Data lata	Obi D :		Committee Draft	0			
Information	Data Interchange	Graphics Data		(FCD).	Component	D	B . E .	
Processing	Services	Interchange		IETE DEC 2000	Framework	Data Interchange	Data Exchange	Computer Graphics
				IETF RFC 2083,				
				Portable Network				
				Graphics (PNG)				
				Specification, Version				
Information	Data Interchange	Graphics Data		1.0, March 1997.	Component			
Processing	Services	Interchange		<u> </u>	Framework	Data Interchange	Data Exchange	Computer Graphics

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				Multiple-image		.	—	
				Network Graphics				
				(MNG) Format,				
Information	Data Interchange	Graphics Data		Version 1.0, 31	Component			
Processing	Services	Interchange		January 2001.	Framework	Data Interchange	Data Exchange	Computer Graphics
				ISO/IEC 11172-			Ŭ	'
				1:1993, Information				
				technology - Coding				
				of moving pictures				
				and associated audio				
				for digital storage				
				media at up to about				
				1.5 Mbits/s – Part 1:				
				Systems, 1993; with				
				Technical				
				Corrigendum 1:1996,				
				and Technical				
Information	Data Interchange	Motion Imagery Data	Video Support	Corrigendum 2:1999.	Component			Digital Audio and
Processing	Services	Interchange	Services	(MPEG-1)	Framework	Data Interchange	Data Exchange	Video
riocessing	Gervices	interchange	Services	ISO/IEC 11172-	Tallework	Data interchange	Data Exchange	VIGEO
				2:1993, Information				
				*				
				technology – Coding				
				of moving pictures				
				and associated audio				
				for digital storage				
				media at up to about				
	D		\" \	1.5 Mbit/s – Part 2				D: 1/2 A 1/2 1
Information	Data Interchange	Motion Imagery Data	Video Support	Video, 1993. (MPEG-	Component		5 . 5 .	Digital Audio and
Processing	Services	Interchange	Services	1)	Framework	Data Interchange	Data Exchange	Video
				ISO/IEC 13818-				
				1:2000, Information				
				technology – Generic				
				coding of moving				
				pictures and				
				associated audio				
Information	Data Interchange	Motion Imagery Data	Video Support	information – Part 1:	Component			Digital Audio and
Processing	Services	Interchange	Services	Systems (MPEG-2).	Framework	Data Interchange	Data Exchange	Video
				ISO/IEC 13818-				
				2:2000, Information				
				technology – Generic				
				coding of moving				
				pictures and				
				associated audio				
Information	Data Interchange	Motion Imagery Data	Video Support	information - Part 2:	Component			Digital Audio and
Processing	Services	Interchange	Services	Video (MPEG-2).	Framework	Data Interchange	Data Exchange	Video
<u> </u>				Motion Imagery		Ĭ	Ĭ	
				Standards Profile,				
Information	Data Interchange	Motion Imagery Data	Motion Imagery	Version 2.0, 29	Component			Digital Audio and
Processing	Services	Interchange	Systems	November 2001.	Framework	Data Interchange	Data Exchange	Video

DISR IT Category	DISR Service Area	DISR Service Sub-	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service	FEA Service Sub-	FEA Standard Area
		Area		ISO/IEC 15444-		Category	Category	
				1:2001, Information				
				technology – JPEG				
				2000 image coding				
				system – Part 1: Core				
				coding system, 20				
				December 2001, with				
				Amendments 1 and 2,				
				29 January 2002.				
				(Note that this				
				standard is not				
				compatible with				
Information	Data Interchange	Still Imagery Data		ISO/IEC 10918-	Component			
Processing	Services	Interchange		1:1994, JPEG.)	Framework	Data Interchange	Data Exchange	Computer Graphics
				ISO/IEC 8632-1:1999,				
				Information				
				technology –				
				Computer graphics –				
				Metafile for the				
				storage and				
				transmission of				
				picture description				
				information – Part 1:				
				Functional				
				specification, as				
				profiled by MIL-STD-				
				2301A, Computer				
				Graphics Metafile				
				(CGM)				
				Implementation				
				Standard for the				
				National Imagery				
				Transmission Format				
				Standard, 5 June				
				1998 with Notice 1, 1				
Information	Data Interchange	Still Imagery Data		March 2001.	Component			
Processing	Services	Interchange		IVIAI 011 200 1.	Framework	Data Interchange	Data Exchange	Computer Graphics

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
		Alta		ISO/IEC 8632-3:1999,		Category	Category	
				Information				
				technology -				
				Computer graphics –				
				Metafile for the				
				storage and				
				transmission of				
				picture description				
				information – Part 3:				
				Binary encoding, as				
				profiled by MIL-STD-				
				2301A, Computer				
				Graphics Metafile				
				(CGM)				
				Implementation				
				Standard for the				
				National Imagery				
				Transmission Format				
				Standard, 5 June				
				1998 with Notice 1, 1				
Information	Data Interchange	Still Imagery Data		March 2001.	Component			
Processing	Services	Interchange			Framework	Data Interchange	Data Exchange	Computer Graphics
J				ISO/IEC 8632-4:1999,				
				Information				
				technology –				
				Computer graphics –				
				Metafile for the				
				storage and				
				transmission of				
				picture description				
				information - Part 4:				
				Clear text encoding,				
				as profiled by MIL-				
				STD-2301A,				
				Computer Graphics				
				Metafile (CGM)				
				Implementation				
				Standard for the				
				National Imagery				
				Transmission Format				
				Standard, 5 June				
				1998 with Notice 1, 1				
Information	Data Interchange	Still Imagery Data		March 2001.	Component			
Processing	Services	Interchange			Framework	Data Interchange	Data Exchange	Computer Graphics

DISR IT Category	DISR Service Area	DISR Service Sub-	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service	FEA Service Sub-	FEA Standard Area
		Area				Category	Category	
				MIL-STD-2500B,				
				National Imagery				
				Transmission Format				
				(Version 2.1) for the				
				National Imagery				
				Transmission Format				
				Standard, 22 August				
				1997 with Notice 1, 2				
				October 1998, and				
				Notice 2, 1 March				
Information	Data Interchange	Still Imagery Data		2001.	Component			
Processing	Services	Interchange			Framework	Data Interchange	Data Exchange	Spatial Imagery
				MIL-STD-188-196, Bi-				1 0 7
				Level Image				
				Compression for the				
				National Imagery				
				Transmission Format				
				Standard, 18 June				
				1993 with Notice 1, 27				
Information	Data Interchange	Still Imagery Data		June 1996.	Component			
Processing	Services	Interchange			Framework	Data Interchange	Data Exchange	Spatial Imagery
		<u> </u>		MIL-STD-188-199.		, and the second		, ,
				Vector Quantization				
				Decompression for				
				the National Imagery				
				Transmission Format				
				Standard, 27 June				
				1994 with Notice 1, 27				
Information	Data Interchange	Still Imagery Data		June 1996.	Component			
Processing	Services	Interchange			Framework	Data Interchange	Data Exchange	Spatial Imagery
		<u> </u>		The Compendium of		J .		. ,
				Controlled Extensions				
				(CE) for the National				
				Imagery Transmission				
				Format (NITF),				
				Version 2.1, 16				
Information	Data Interchange	Still Imagery Data		November 2000.	Component			
Processing	Services	Interchange			Framework	Data Interchange	Data Exchange	Spatial Imagery

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				ISO/IEC 12087-				
				5:1998, Information				
				technology -				
				Computer graphics				
				and image processing				
				- Image Processing				
				and Interchange (IPI)				
				Functional				
				specification - Part 5:				
				Basic Image				
				Interchange Format				
				(BIIF), 1 December				
1				1998, with Technical				
Information	Data Interchange	Still Imagery Data		Corrigendum 1:2001.	Component			
Processing	Services	Interchange		Corrigeriaam 1.2001.	Framework	Data Interchange	Data Exchange	Spatial Imagery
		ge		ITU-R TF.1010-1,			- and another gr	
				Relativistic effects in				
				a coordinate time				
1				system in the vicinity				
Information	Data Interchange	Time-of-Day Data		of the Earth, October	Component			
Processing	Services	Interchange		1997.		Data Interchange	Data Exchange	Spatial Imagery
rroccomig	00111000	interenange		ITU-R TF.460-5,	ranowork	Data interentinge	Data Extra ligo	opatiai iiiagory
				Standard-frequency				
Information	Data Interchange	Time-of-Day Data		and time-signal	Component			
Processing	Services	Interchange		emissions, 1997.	Framework	Data Interchange	Data Exchange	Spatial Imagery
1 recedening	00111000	interenange		ISO/IEC 9075:1992,	ranowork	Data interentinge	Data Extra ligo	opatiai iiiagory
				Information				
				technology –				
				Database language –				
				SQL with Amendment				
				1, 1996, as modified				
				by FIPS PUB 127-				
				2:1993, Database				
				language for				
				0 0				
Information	Data Management			Relational DBMSs.	Service Interface and			Database Access:
Processing	Services			(Entry Level SQL).		late anetic a	Middleware	OPEN ANSI SQL/92
Processing	Services			100/150 0075 0:4005	Integration	Integration	Middleware	OPEN ANSI SQL/92
				ISO/IEC 9075-3:1995,				
				Information				
				technology –				
				Database languages				
ی ما				- SQL - Part 3:Call-				
Information	Data Management			Level Interface	Service Interface and			Database Access:
Processing	Services			(SQL/CLI).	Integration	Integration	Middleware	OPEN ANSI SQL/92

DISR IT Category	DISR Service Area	DISR Service Sub-	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service	FEA Service Sub-	FEA Standard Area
		Area				Category	Category	
				ANSI X3.135.10-				
				1998: Information				
				technology -				
				Database languages				
				- SQL - Part 10:				
				Object Language				
Information	Data Management			Bindings (SQL/OLB).	Service Interface and			Database Access:
Processing	Services				Integration	Integration	Middleware	OPEN ANSI SQL/92
				ANSI/ISO/IEC 9075-				
				1:1999, Information				
				technology –				
				Database languages				
				- SQL - Part 1:				
Information	Data Management			Framework	Service Interface and			Database Access:
Processing	Services			(SQL/Framework).	Integration	Integration	Middleware	OPEN ANSI SQL/92
i rocessing	OCT VICES			ANSI/ISO/IEC 9075-	integration	integration	iviidaleware	OI LIV AIVOI OQLI 32
				2:1999, Information				
				technology –				
				Database languages – SQL – Part 2:				
l f	Data Managara				O a maile a distanta a a a mail			D-4-6 A
Information	Data Management			Foundation	Service Interface and		NA: dallarrana	Database Access:
Processing	Services			(SQL/Foundation).	Integration	Integration	Middleware	OPEN ANSI SQL/92
				ANSI/ISO/IEC 9075-				
				3:1999, Information				
				technology -				
				Database languages				
				- SQL - Part 3: Call-				
Information	Data Management			Level Interface (for	Service Interface and			Database Access:
Processing	Services			SQL3).	Integration	Integration	Middleware	OPEN ANSI SQL/92
				ANSI/ISO/IEC 9075-				
				4:1999, Information				
				technology -				
				Database languages				
				SQL – Part 4:				
				Persistent Stored				
Information	Data Management			Modules (SQL/PSM).	Service Interface and			Database Access:
Processing	Services				Integration	Integration	Middleware	OPEN ANSI SQL/92
				ANSI/ISO/IEC 9075-				
				5:1999, Information				
				technology –				
				Database languages				
				- SQL - Part 5: Host				
				Language Bindings				
Information	Data Management			(SQL/Bindings).	Service Interface and			Database Access:
Processing	Services			[Integration	Integration	Middleware	OPEN ANSI SQL/92

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				ISO/IEC 13249-				
				3:1999, Information				
				technology -				
				Database languages				
				 SQL multimedia and 				
				application packages				
Information	Data Management			– Part 3: Spatial.	Service Interface and			Database Access:
Processing Services	Services			·	Integration	Integration	Middleware	OPEN ANSI SQL/92
				ISO/IEC 9579:2000,				
				Information				
				technology - Remote				
				database access for				
Information	Data Management			SQL with security	Service Interface and			Database Access:
Processing	Services			enhancement.	Integration	Integration	Middleware	OPEN ANSI SQL/92
				The Object Database				
1				Standard: ODMG 3.0,				
				R.G.G. Cattell et al.				
				eds. The Morgan				
				Kaufmann Series in				
				Data Management,				
				2000, ISBN 1-55860-				
Information	Data Management			647-4.	Service Interface and			Information
Processing	Services				Integration	Integration	Middleware	Management
				Content Storage		3		
				Distribution &				
Information	Data Management			Management (NCOW	Service Interface and			Information
Processing	Services			RM TTV)	Integration	Integration	Middleware	Management
J				OMG document	, and the second			Ŭ
				formal/99-10-07,				
				Common Object				
				Request Broker:				Object Request
				Architecture and				Broker (ORB):
				Specification, Version				Common Object
Information	Distributed Computing	Distributed-Object		2.3.1, October 1999.	Service Interface and			Request Broker
Processing	Services	Computing		,	Integration	Integration	Middleware	Architecture (CORBA)
				OMG document	_			, ,
				formal/2000-06-19,				Object Request
				Naming Service				Broker (ORB):
				Specification, Version				Common Object
Information	Distributed Computing	Distributed-Object		1.0, April 2000.	Service Interface and			Request Broker
Processing	Services	Computing			Integration	Integration	Middleware	Architecture (CORBA)
<u> </u>				OMG document	_			
				formal/2000-06-15,				Object Request
				Event Service				Broker (ORB):
				Specification, Version				Common Object
Information	Distributed Computing	Distributed-Object		1.0, June 2000.	Service Interface and			Request Broker
Processing	Services	Computing			Integration	Integration	Middleware	Architecture (CORBA)

DISR IT Category		DISR Service Sub-	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
		Alea		OMG document		Category	Category	
				formal/2000-06-28.				Object Request
				Transaction Service				Broker (ORB):
								Common Object
	D: 1 1 1 0 1:	D:		Specification, Version	0			,
Information	Distributed Computing			1.1, May 2000.	Service Interface and			Request Broker
Processing	Services	Computing			Integration	Integration	Middleware	Architecture (CORBA
				OMG document				
				formal/2000-06-26,				Object Request
				Time Service				Broker (ORB):
				Specification, Version				Common Object
Information	Distributed Computing			1.0, May 2000.	Service Interface and			Request Broker
Processing	Services	Computing			Integration	Integration	Middleware	Architecture (CORBA
-		-		OMG document		-		
				formal/2000-06-27,				
				Trading Object				Object Request
				Service Specification,				Broker (ORB):
				Version 1.0, May				Common Object
Information	Distributed Computing	Distributed-Object		2000.	Service Interface and			Request Broker
Processing		Computing		2000.	Integration	Integration	Middleware	Architecture (CORBA
1 1000331119	CCIVICES	Company		OMG document	intogration	integration	Wilddieware	/ troniteotare (OOTED/)
				formal/2000-06-20.				Object Request
								Broker (ORB):
				Notification Service				
	D: 1 1 1 0 1:	D:		Specification, Version	0			Common Object
Information	Distributed Computing			1.0, June 2000.	Service Interface and			Request Broker
Processing	Services	Computing			Integration	Integration	Middleware	Architecture (CORBA
				ANSI INCITS 358-				
				2002, BioAPI				
				Specification, Version				
Information	Electronic Records	Biometric Technology		1.1, Feb 13, 2002.	Component		Supporting Security	Environment
Processing	Management	Services			Framework	Security	Services	Management
				NIST, NISTIR 6529,				
				Common Biometric				
				Exchange File Format				
Information	Electronic Records	Biometric Technology		(CBEFF), January 3,	Component		Supporting Security	Environment
Processing	Management	Services		2001.	Framework	Security	Services	Management
	Ĭ			DoD-5015.2-STD,		,		
				Design Criteria				
				Standard for				
				Electronic Records				
				Management				
				Software Applications				
					1			
l = f = = = = +! = = =	Facility and the	Electronic Decord		19 June 2002	Ormital Intentary			la fa ma a ti a m
Information		Electronic Records		(Sections	Service Interface and			Information
Processing	Management	Management		2.2.1–2.2.1.1 only).	Integration	Integration	Middleware	Management

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
		71100		IEEE 1484.1,		outogo.y	Gutogory	
				Standard for				
				Information				
				Technology –				
				Education and				
				Training Systems				
				Architecture and				
				Reference Model,				
Information	Environment			LTSA Draft 9, 2001-	Service Interface and			
Processing	Management	Learning Technology		11-30.	Integration	Integration	Middleware	Training Systems
1 Toocssing	Management	Learning recrimology		IEEE P1484.2,	mogration	intogration	Middleware	Training Cystems
				Standard for				
				Information				
				Technology –				
I				Learning Systems –				
I								
lufo ma otio u	Facility and and			Learner Model, PAPI	Comitoe Intentoco and			
Information	Environment	I coming Tooksologs		Learner, Draft 7, 2000		Intoquation	Middlessen	Training Cuatama
Processing	Management	Learning Technology		11-29.	Integration	Integration	Middleware	Training Systems
				IEEE 1484.11.1, Draft				
				Standard for Learning				
				Technology – Data				
				Model for Content to				
				LMS				
Information	Environment			Communications,	Service Interface and			
Processing	Management	Learning Technology		2001-03-15.	Integration	Integration	Middleware	Training Systems
				IEEE 1484.12.1, Draft				
				Standard for Learning				
				Object Metadata,				
Information	Environment			2002-03-04.	Service Interface and			
Processing	Management	Learning Technology			Integration	Integration	Middleware	Training Systems
				ANSI/ISO/IEC 9636-				
				1,2,3,4,5,6:1991				
				(R1997), Information				
				technology –				
				Computer graphics –				
				Interfacing (CGI)				
				techniques for				
Information				dialogues with	Component			
Processing	Graphics Services			graphics devices.	Framework	Data Interchange	Data Exchange	Computer Graphics
				OpenGL Graphics				
				System: A				
				Specification (Version				
Information				1.2.1), 1 April 1999.	Component			
Processing	Graphics Services				Framework	Data Interchange	Data Exchange	Computer Graphics
<u>_</u>	<u>'</u>			OpenGL Graphics			, in the second	<u> </u>
				System: A				
				Specification (Version				
Information				1.3), 14 Aug 2001.	Component			
Processing	Graphics Services				Framework	Data Interchange	Data Exchange	Computer Graphics

DISR IT Category	DISR Service Area	DISR Service Sub-	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service	FEA Service Sub-	FEA Standard Area
		Area				Category	Category	
				ISO/IEC 8859-1:1998,			-	
ļ				Information				
ļ				technology – 8-bit				
ļ				single-byte coded				
ļ				graphic character sets				
Information	Internationalization			- Part 1: Latin	Component			
Processing	Services			alphabet No. 1.	Framework	Data Interchange	Data Exchange	Internationalization
Ŭ				ISO/IEC 10646-		Ů	Ŭ	
ļ				1:2000, Information				
ļ				technology -				
ļ				Universal Multiple-				
ļ				Octet Coded				
ļ				Character Set (UCS)				
ļ				- Part 1: Architecture				
ļ				and Basic Multilingual				
Information	Internationalization			Plane.	Component			
	Services			i idilo.	Framework	Data Interchange	Data Exchange	Internationalization
. recessing	00.1.000			Linux Standard Base	- ramonom	zata interestarige	Zata Zhoriango	THO THAT OT A LEAGUE
ļ				Specification 1.2,				
Information	Operating System			Free Standards	Service Platform and			
	Services			Group, 2002.	Infrastructure	Supporting Platforms	Platform Independent	Linux
. recessing	00.1.000			Linux Standard Base	aot. dotaro	Cupporting Francisco	r iationii iiiaoponiaoni	
ļ				Specification for the				
ļ				IA32 Architecture 1.2,				
ļ				Free Standards				
Information	Operating System			Group, 2002.	Service Platform and			
	Services			O. Gup, 2002.	Infrastructure	Supporting Platforms	Platform Independent	Linux
· · · · · · · · · · · · · · · · · · ·				Linux Standard Base				
ļ				Specification for the				
ļ				PPC32 Architecture				
ļ				1.2, Free Standards				
Information	Operating System			Group, 2002.	Service Platform and			
	Services			- · · · · · · · · · · · · · · · · · · ·	Infrastructure	Supporting Platforms	Platform Independent	Linux
j j				Defense Information		11 5		
				Infrastructure (DII)				
				Common Operating				
				Environment (COE),				
				Integration and				
				Runtime Specification				
ļ				(I&RTS), Version 4.1,				
				3 October 2000. (BEA				
luda uma ati a u	Operating System			TV)	Service Platform and			
Information								

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area		FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				ISO/IEC 9945-1:1996,				
				Information				
				technology - Portable				
				Operating System				
				Interface (POSIX) -				
				Part 1: System				
				Application Program				
				Interface (API) [C				
				language] (Mandated				
nformation	Operating System			Services).	Service Platform and			
Processing	Services			ociviocoj.	Infrastructure	Supporting Platforms	Platform Independent	POSIX
1000331119	OCIVIOCS			ISO/IEC 9945-1:1996,	minastractare	Cupporting Flationing	r lationii inacpenaciit	1 001/1
				(Real-time				
				Extensions) to				
				ISO/IEC 9945-1:1996,				
				Information				
				technology – Portable				
				Operating System				
				Interface (POSIX) -				
				Part 1: System				
				Application Program				
				Interface (API) [C				
				language] (Real-time				
Information	Operating System			Optional Services).	Service Platform and			
Processing	Services				Infrastructure	Supporting Platforms	Platform Independent	POSIX
				ISO/IEC 9945-1:1996,				
				(Thread Extensions)				
				to ISO/IEC 9945-				
				1:1996, Information				
				technology - Portable				
				Operating System				
				Interface (POSIX) -				
				Part 1: System				
				Application Program				
Information	Operating System			Interface	Service Platform and			
Processing	Services				Infrastructure	Supporting Platforms	Platform Independent	POSIX
<u> </u>				(API) [C language]		71 5		
Information	Operating System			(Thread Optional	Service Platform and			
Processing	Services			Services).	Infrastructure	Supporting Platforms	Platform Independent	POSIX
	55.71000			ISO/IEC 9945-2:1993,	aotraotaro	capporting r lattornio	aom maopondont	
				Information				
				technology – Portable				
				Operating System				
m for word at long	On a ratio a Cuata :			Interface (POSIX) –	Comitos Diotforms			
Information	Operating System			Part 2: Shell and	Service Platform and	0 " " "	DL (f L L L L L L L L L L L L L L L L L L	DOOLY
Processing	Services			Utilities.	Infrastructure	Supporting Platforms	Platform Independent	PUSIX

DISR IT Category	DISR Service Area	DISR Service Sub-	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service	FEA Service Sub-	FEA Standard Area
		Area				Category	Category	
				IEEE Standard for				
				Information				
				Technology -				
				Portable Operating				
				System Interface				
				(POSIX) - Part 2:				
				Shell and Utilities –				
Information	Operating System			Amendment 1: Batch	Service Platform and			
Processing	Services			Environment.	Infrastructure	Supporting Platforms	Platform Independent	POSIX
	50.11000			ISO/IEC 14519:1999,	aou aoua o	Cupper unig 1 iau citie	r ialionii iiiaoponaoni	
				Information				
				technology – POSIX				
				Ada Language				
				Interfaces – Binding				
				for System				
				Application Program				
				Interface (API) –				
				Realtime Extensions.				
Information	Operating System			realtime Extensions.	Service Platform and			
Processing	Services				Infrastructure	Supporting Platforms	Platform Independent	POSIX
riocessing	Gervices			ISO/IEC 15287-	illiastructure	Supporting Flationns	r lationii independent	FOSIA
				2:2000, Information				
				technology –				
				Standardized				
				Application				
				Environment Profile –				
				Part 2: Posix Realtime				
Information	Operating System				Service Platform and			
Processing	Services			Application Support (AEP).	Infrastructure	Supporting Platforms	Platform Independent	DOSIV
riocessing	Services			IEEE 1003.1d:1999,	iiiiasiiuciuie	Supporting Flationins	riationii independent	FUSIA
				Standard for				
				Information				
				Technology –				
				Portable Operating				
				System Interface				
				(POSIX) Part 1:				
				System Application				
				Program Interface				
				(API) – Amendment				
				d: Additional Realtime				
Information	Operating System			Extensions [C	Service Platform and			
Processing	Services			Language].	Infrastructure	Supporting Platforms	Platform Independent	POSIX

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	-	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				IEEE 1003.1j:2000,				
				Standard for				
				Information				
				Technology -				
				Portable Operating				
				System Interface				
				(POSIX) - Part 1:				
				System Application				
				Program Interface				
				(API) – Amendment j:				
				Advanced Realtime				
Information	Operating System			Extensions [C	Service Platform and			
Processing	Services			Language].	Infrastructure	Supporting Platforms	Platform Independent	POSIX
1 Tocessing	Oct vices			P1003.1q, Draft	imastructure	Supporting Flationns	r lationii independent	I COIX
				Standard for				
				Information				
				Technology –				
				Portable Operating				
				System Interface				
				(POSIX) Part 1:				
				System Application				
				Program Interface				
				(API) – Amendment x:				
				Tracing [C Language],				
Information	Operating System			Draft 8, April 2000.	Service Platform and			
Processing	Services				Infrastructure	Supporting Platforms	Platform Independent	POSIX
				P1003.21, Draft				
				Standard for				
				Information				
				Technology -				
				Portable Operating				
				System Interface				
				(POSIX) - Part 1:				
				Realtime Distributed				
				Systems				
				Communication				
				Application Program				
				Interface (API)				
				[Language-				
Information	Operating System			Independent], V3.0,	Service Platform and			
Processing	Services			October 1999.	Infrastructure	Supporting Platforms	Platform Independent	POSIX
i rocessing	CELVICES	+	1	C808, Networking	mmastruotul C	oupporting Flation 118	r iationn macpenaent	I JOIA
				Services (XNS), Issue				
				5.2, Open Group				
				Technical Standard,				
				ISBN-1-85912-241-8,				
Information	Operating System			January 2000.	Service Platform and			
Processing	Services				Infrastructure	Supporting Platforms	Platform Independent	POSIX

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area		FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				The Single UNIX				
				Specification, Version				
Information	Operating System			3 (SUS v3), The Open				
Processing	Services			Group.	Infrastructure	Supporting Platforms	Platform Independent	POSIX
	D			Heterogeneity Aware				
Information	Platform			P2P (NCOW RM	Service Access and	D !' O! !	D (DOD)	
Processing	Communications			TTV)	Delivery	Delivery Channels	Peer to Peer (P2P)	
				Common Information Model (CIM) Version				
				2.2, Distributed				
				Management Task				
Information	System Management			Force, Inc., 14 June	Service Platform and		Systems	
Processing	Services			1999.	Infrastructure	Network Operations	Management	
1 Toccooning	OCTVICES			Common Information	imastructure	Network Operations	Management	
				Model (CIM) Schema				
				Version 2.5,				
				Distributed				
				Management Task				
Information	System Management			Force, Inc., 12 June	Service Platform and		Systems	
Processing	Services			2001.	Infrastructure	Network Operations	Management	
J				Desktop Management		•	Ŭ	
				Interface V2.0s				
				Specification,				
				Distributed				
				Management Task				
				Force, Inc., 24 June				
Information	System Management			1998.	Service Platform and		Systems	
Processing	Services				Infrastructure	Network Operations	Management	
				Specification for the				
				Representation of				
				CIM in XML Version				
				2.0, Distributed				
				Management Task	0 1 50 1			
Information	System Management			Force, Inc., 20 July	Service Platform and	National One and an	Systems	
Processing	Services			1999. IETF RFC 3060,	Infrastructure	Network Operations	Management	
				Policy Core				
				Information Model 6				
				Version 1				
				Specification, Internet				
				Engineering Task				
Information	System Management			Force, February 2000.	Service Platform and		Systems	
Processing	Services			l orce, rebruary 2000.	Infrastructure	Network Operations	Management	
	20111000			Specification for CIM	doll dollar		managomont	
				Operations over				
				HTTP Version 1.0,				
				Distributed				
				Management Task				
Information	System Management			Force, Inc., 11 August	Service Platform and		Systems	
Processing	Services			1999.	Infrastructure	Network Operations	Management	1

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				X Window System				
				(X11R6): Protocol,				
Information	User Interface	User Interface		The Open Group, July		Presentation /	0 5	V 14" 1 0 (
Processing	Services	Service—POSIX		1999.	Framework	Interface	Static Display	X Window System
				X Window System				
				(X11R6): C-Language				
				Library (Xlib), Open				
				Group Technical Standard, December				
nformation	User Interface	User Interface		1999. (BEA TV)	Component	Presentation /		
Processing	Services	Service—POSIX		1999. (DEA 1V)	Framework	Interface	Static Display	X Window System
riocessing	Services	Service—F OSIX		X Window System	Trainework	interiace	Static Display	A William System
				(X11R6): Toolkit,				
				Open Group				
				Technical Standard,				
Information	User Interface	User Interface		December 1999.	Component	Presentation /		
Processing	Services	Service—POSIX		(BEA TV)	Framework	Interface	Static Display	X Window System
	00.11000	00.1100 1.00.51		Window Management	· ramonom		Ciano Diopia)	7. Triniden Cycleni
				(X11R5): File Formats				
				and Application				
				Conventions, Open				
				Group Technical				
				Standard, ISBN 1-				
				85912-090-3, May				
				1995. (BEA TV)				
Information	User Interface	User Interface		,	Component	Presentation /		
Processing	Services	Service—POSIX			Framework	Interface	Static Display	X Window System
				Win32 APIs, as				
				specified in the				
Information	User Interface	User Interface		Microsoft Platform	Component	Presentation /		
Processing	Services	Service—WIN 32		SDK. (BEA TV)	Framework	Interface	Static Display	Win32
				SDN.706, X.509				
				Certificate and				
				Certificate Revocation				
				List Profiles and				
				Certification Path				
				Processing Rules,				
				Revision D, 12 May				
	Computing			1999.	Component		Certificates / Digital	Digital Certificate
Information Security	Environment	Applications	Secure Messaging		Framework	Security	Signature	Authentication
				Secure Sockets Layer				
				(SSL) Protocol,				
				Version 3.0, 18				
	Computing		Secure Web	November 1996.	Component		Certificates / Digital	Secure Sockets Layer
Information Security	Environment	Applications	Browsing		Framework	Security	Signature	(SSL)
				IETF RFC 2632,				
				S/MIME Version 3				Secure Multipurpose
	Computing	A 11 11		Certificate Handling,	Component		Supporting Security	Internet Mail
Information Security	Environment	Applications	Secure Messaging	June 1999.	Framework	Security	Services	Extensions (S/MIME)

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				IETF RFC 2633,				
				S/MIME Version 3				
				Message				Secure Multipurpose
	Computing			Specification, June	Component		Supporting Security	Internet Mail
Information Security	Environment	Applications	Secure Messaging	1999.	Framework	Security	Services	Extensions (S/MIME)
				IETF RFC 2634,				
				Enhanced Security				Secure Multipurpose
	Computing			Services for S/MIME,	Component		Supporting Security	Internet Mail
Information Security	Environment	Applications	Secure Messaging	June 1999.	Framework	Security	Services	Extensions (S/MIME)
•				IETF RFC 2246, The				
				Transport Layer				
				Security (TLS)				
	Computing		Secure Web	Protocol Version 1.0,	Component		Supporting Security	Transport Layer
Information Security	Environment	Applications	Browsing	January 1999.	Framework	Security	Services	Security (TLS)
,		1.		ITU-T		ĺ		, , ,
				Recommendation				
				X.509 (2000)/ISO/IEC				
				9594-8:2001,				
				Information				
				Technology – Open				
				Systems				
				Interconnection – The				
				Directory: Public Key				
				and Attribute				
				Certificate				
				Frameworks, 2001,				
				with Technical				
				Corrigendum 1:2002,				Web Services
	Computing			and Technical	Component		Supporting Security	Security (WS-
Information Security	Environment	Applications	Secure Messaging	Corrigendum 2:2002.	Framework	Security	Services	Security)
inionnation cocarty	Littionion	присатопо	Coourd Moodaging	draft-ietf-secsh-	ramowork	Cooding	00111000	Coounty)
				architecture-13.txt,				
				Secure Shell (SSH)				
				Protocol Architecture,				
	Computing			23 September 2002	Component		Supporting Security	
Information Security	Environment	Applications	Secure Session	20 Ocptomber 2002	Framework	Security	Services	Secure Shell (SSH)
		, ppilodilolio	233410 20001011	Fortezza Interface		Coounty	20171000	
				Control Document,				
	Computing			Revision P1.5, 22	Component		Supporting Security	
Information Security	Environment	Applications	Secure Messaging	December 1994.	Framework	Security	Services	Applications
		, ppilodilolio	- Coodio Moodaging	ACP-120, Allied	a.nowon	Coounty	20171000	, ppilodiono
				Communications				
				Publication 120,				
				Common Security				
	Computing			Protocol (CSP), Rev	Component		Supporting Security	
Information Security	Environment	Applications	Secure Messaging		Framework	Socurity	Services	Applications
miorination Security	Environment	PAPPIICALIONS	Secure intessaging	A, 7 May 1998.	FIAMEWOIK	Security	Services	Applications

DISR IT Category	DISR Service Area	DISR Service Sub-	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				ITU-T		3	3 .,	
				Recommendation				
				X.411 (1999)/ISO/IEC				
				10021-4:1999,				
				Information				
				Technology - Open				
				Systems				
				Interconnection –				
				Message Handling				
				Systems (MHS) -				
				Message Transfer				
				System: Abstract				
				Service Definition				
	Computing			Procedures.	Component		Supporting Security	
Information Security	Environment	Applications	Secure Messaging		Framework	Security	Services	Applications
,		1.		ITU-T		,		
				Recommendation				
				X.481 (2000)/ISO/IEC				
				15816-12:2000,				
				Information				
				Technology - Security	,			
				Techniques - Security				
				Information Objects				
				for Access Control.				
	Computing				Component		Supporting Security	
Information Security	Environment	Applications	Secure Messaging		Framework	Security	Services	Applications
,				SDN.801, Access		,		
				Control Concept and				
				Mechanisms,				
	Computing			Revision C, 12 May	Component		Supporting Security	
Information Security	Environment	Applications	Secure Messaging	1999.	Framework	Security	Services	Applications
				IETF RFC 2630,		- Cooking		i ppeee
				Cryptographic				
	Computing			Message Syntax,	Component		Supporting Security	
Information Security	Environment	Applications	Secure Messaging	June 1999.	Framework	Security	Services	Applications
,		11		FIPS PUB 112,		,		
	Computing			Password Usage, 30	Component		Supporting Security	
Information Security	Environment	Applications	Access Control	May 1985.	Framework	Security	Services	Applications
		1,		IETF RFC 1510, The		,,,		11 200
				Kerberos Network		1		
				Authentication				
	Computing			Service, Version 5, 10	Component		Supporting Security	
Information Security	Environment	Applications	Access Control	September 1993.	Framework	Security	Services	Applications
		11		IETF RFC 2289, A		,		11
				One-Time Password		1		
	Computing			System, February	Component		Supporting Security	
Information Security	Environment	Applications	Access Control	1998.	Framework	Security	Services	Applications

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				IETF RFC 2138,				
				Remote				
				Authentication Dial In				
				User Service				
	Computing		1	(RADIUS), April 1997.	•		Supporting Security	
nformation Security	Environment	Applications	Access Control		Framework	Security	Services	Applications
				OMG document				
				formal/01-03-08,				
				Security Services				
	Computing		Secure Distributed	Specification, Version 1.7, March 2001.	Component		Supporting Security	
nformation Security	Environment	Applications	Computing	1.7, Maich 2001.	Framework	Security	Services	Applications
mormation occurry	LITATIONNICH	приодионо	Computing	Controlled Access	Tranicwork	Occurry	CCIVICCS	прриодионо
				Protection Profile,				
	Computing		Operating System	Version 1.d, NSA, 8	Component		Supporting Security	
nformation Security	Environment	Applications	Security	October 1999.	Framework	Security	Services	Applications
				Labeled Security				7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
				Protection Profile,				
				Version 1.b, NSA, 8				
	Computing			October 1999.	Component		Supporting Security	
nformation Security	Environment	Applications	Secure Messaging	(NCOW RM TTV)	Framework	Security	Services	Applications
•				FIPS PUB 186-2,				
				Digital Signature				
				Standard (DSS)				
				Digital Signature				
	Computing	Cryptographic		Algorithm (DSA), 27	Component		Certificates / Digital	Digital Certificate
nformation Security	Environment	Security Services	Signature Algorithms	January 2000.	Framework	Security	Signature	Authentication
				SKIPJACK and KEA				
				Algorithm				
				Specification, Version			0 " 0 "	
mfarmatian Casurity	Computing	Cryptographic	Encryption	2.0, NIST, 29 May	Component	Coording	Supporting Security	Om under aven by
nformation Security	Environment	Security Services	Algorithms	1998. FIPS PUB 46-3, Data	Framework	Security	Services	Cryptography
	Computing	Cryptographic	Encryption	Encryption Standard, 25 October 1999.	Component		Supporting Security	
nformation Security	Environment	Security Services	Algorithms	23 October 1999.	Framework	Security	Services	Cryptography
mormation occurry	LITATIONNICH	Occurry Octvioes	rugonumo	FIPS PUB 180-1,	Tranicwork	Occurry	CCIVICCS	Oryptography
				Secure Hash				
	Computing	Cryptographic		Standard, 17 April	Component		Supporting Security	
nformation Security	Environment	Security Services	Hash Algorithms	1995.	Framework	Security	Services	Cryptography
			i i i i i i i i i i i i i i i i i i i	IETF RFC 2104.				
				HMAC: Keyed-				
				Hashing for Message				
				Authentication,				
c	Computing	Cryptographic		February 1997.	Component		Supporting Security	
nformation Security	Environment	Security Services	Hash Algorithms		Framework	Security	Services	Cryptography
				Fortezza Application				
				Implementers' Guide,				
	Computing	Cryptographic		MD4002101-1.52, 5	Component		Supporting Security	
nformation Security	Environment	Security Services	Cryptographic APIs	March 1996.	Framework	Security	Services	Cryptography

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				Fortezza Cryptologic				
				Interface				
				Programmers' Guide				
				(CIPG), Revision				
	Computing	Cryptographic		1.52, 30 January	Component		Supporting Security	
Information Security	Environment	Security Services	Cryptographic APIs	1996.	Framework	Security	Services	Cryptography
				FIPS PUB 140-2,				
				Security				
				Requirements for				
				Cryptographic				
	Computing	Cryptographic	Cryptographic	Modules, 25 May	Component		Supporting Security	
Information Security	Environment	Security Services	Modules	2001.	Framework	Security	Services	Cryptography
				FIPS PUB 197,				
				Advanced Encryption				
				Standard (AES), 26				
	Computing	Cryptographic	Encryption	November 2001.	Component		Supporting Security	
Information Security	Environment	Security Services	Algorithms		Framework	Security	Services	Cryptography
				IETF RFC 2743,				
				Generic Security				
				Service Application				
				Program Interface,				
	Computing	Cryptographic		Version 2, 1 January	Component		Supporting Security	
Information Security	Environment	Security Services	Cryptographic APIs	2000.	Framework	Security	Services	Cryptography
				IETF RFC 2479,				
				Independent Data				
				Unit Protection				
				Generic Security				
				Service Application				
				Program Interface				
	Computing	Cryptographic		(IDUP-GSS-API),	Component		Supporting Security	
Information Security	Environment	Security Services	Cryptographic APIs	December 1998.	Framework	Security	Services	Cryptography
	Computing	Cryptographic		Mobile Cryptography	Component		Supporting Security	
Information Security	Environment	Security Services		(NCOW RM TTV)	Framework	Security	Services	Cryptography
				U.S. Government				
				Traffic Filter Firewall				
				Protection Profile for				
				Low Risk				
				Environments,				
		L		Version 1.1, April	Service Platform and	Hardware /	Network Devices /	
Information Security	Enclave Boundary	Firewall		1999.	Infrastructure	Infrastructure	Standards	Firewall
				U.S. Department of		1		
				Defense Application-		1		
				level Firewall				
				Protection Profile for		1		
				Basic Robustness		1		
				Environments,		L		
				Version 1.0, June	Service Platform and	Hardware /	Network Devices /	L
Information Security	Enclave Boundary	Firewall		2000.	Infrastructure	Infrastructure	Standards	Firewall

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
		Aicu		U.S. Department of		Category	outegory	
				Defense Traffic Filter				
				Firewall Protection				
				Profile for Medium				
				Robustness				
				Environments,				
				Version 1.4, 1 May	Service Platform and	Hardware /	Network Devices /	
formation Security En	Enclave Boundary	Firewall		2000.	Infrastructure	Infrastructure	Standards	Firewall
,	ŕ			U.S. Department of				
				Defense Application-				
				level Firewall				
				Protection Profile for				
				Medium Robustness				
				Environments,				
				Version 1.0, 28 June	Service Platform and	Hardware /	Network Devices /	
Information Security	Enclave Boundary	Firewall		2000.	Infrastructure	Infrastructure	Standards	Firewall
-	,			ISO/IEC 15408:1999,				
				Information				
				technology - Security				
				techniques -				
				Evaluation criteria for				
				information				
				technology security				
				(parts 1 through 3), 1				
				December 1999.	Service Access and			
Information Security	Evaluation Criteria	Common Criteria			Delivery	Service Transport	Service Transport	IP Security (IPSEC)
				IETF RFC 2420, The				
				PPP Triple-DES				
				Encryption Protocol				Security Layers
	Network and			(3DESE), September	Component		Supporting Security	(Physical, Link,
Information Security	Infrastructure	Link Layer		1998.	Framework	Security	Services	Network
				IETF RFC 2401,				
				Security Architecture				
				for the Internet				
	Network and			Protocol, November	Service Access and			
Information Security	Infrastructure	Network Layer		1998.	Delivery	Service Transport	Service Transport	IP Security (IPSEC)
				Internet Protocol				
	Network and			Security Policy	Service Access and	L		ID 0 11 11 11 11 11 11 11 11 11 11 11 11 1
Information Security	Infrastructure	Network Layer		(NCOW RM TTV)	Delivery	Service Transport	Service Transport	IP Security (IPSEC)
				IETF RFC 2402, IP				
				Authentication				Security Layers
	Network and			Header, November	Component		Supporting Security	(Physical, Link,
Information Security	Infrastructure	Network Layer		1998.	Framework	Security	Services	Network
				IETF RFC 2404, The				
				Use of HMAC-SHA-1-				Security Layers
	Network and			96 within ESP and	Component		Supporting Security	(Physical, Link,
Information Security	Infrastructure	Network Layer		AH, November 1998.	Framework	Security	Services	Network

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				IETF RFC 2406, IP				
				Encapsulating				
				Security Payload				Security Layers
	Network and			(ESP), November	Component		Supporting Security	(Physical, Link,
Information Security	Infrastructure	Network Layer		1998.	Framework	Security	Services	Network
,		1		IETF RFC 2407, The		,		
				Internet IP Security				
				Domain of				
				Interpretation for				Security Layers
	Network and			ISAKMP, November	Component		Supporting Security	(Physical, Link,
Information Security	Infrastructure	Network Layer		1998.	Framework	Security	Services	Network
· · · · · · · · · · · · · · · · · · ·		ĺ		IETF RFC 2408,		,		
				Internet Security				
				Association and Key				
				Management Protocol				Security Layers
	Network and			(ISAKMP), November	Component		Supporting Security	(Physical, Link,
Information Security	Infrastructure	Network Layer		1998.	Framework	Security	Services	Network
,		ĺ		IETF RFC 2409, The		,		
				Internet Key				Security Layers
	Network and			Exchange (IKE),	Component		Supporting Security	(Physical, Link,
Information Security	Infrastructure	Network Layer		November 1998.	Framework	Security	Services	Network
•		Í		Virtual Private				
				Network Protection				
				Profile for Protecting				
				Sensitive Information,				
				Version 1.0, 26				Security Layers
	Network and			February 2000.	Component		Supporting Security	(Physical, Link,
Information Security	Infrastructure	Network Layer			Framework	Security	Services	Network
				High Assurance IP				Security Layers
	Network and			Interoperability	Component		Supporting Security	(Physical, Link,
Information Security	Infrastructure	Network Layer		(NCOW RM TTV)	Framework	Security	Services	Network
				IEEE 802.10-1998,				
				IEEE Standards for				
				Local and				
				Metropolitan Area				
				Networks: Standard				
				for Interoperable				
				LAN/MAN Security				Security Layers
	Network and			(SILS), 17 September	Component		Supporting Security	(Physical, Link,
Information Security	Infrastructure	Physical Layer		1998.	Framework	Security	Services	Network

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
		Aica		IEEE 802.10a-1999,		Outegory	Guicgoly	
				IEEE Standards for				
				Local and				
				Metropolitan Area				
				Networks:				
				Supplement to				
				Standard for				
				Interoperable				
				LAN/MAN Security				
				(SILS) – Security				
				Architecture				Security Layers
	Network and			Framework (Clause	Component		Supporting Security	(Physical, Link,
Information Security	Infrastructure	Physical Layer		1), 22 March 1999.	Framework	Security	Services	Network
				IEEE 802.10c-1998,				
				IEEE Standards				
				Interoperable				
				LAN/MAN Security				
				(SILS) – Key				
				Management (Clause				Security Layers
	Network and			3), 17 April 1998.	Component		Supporting Security	(Physical, Link,
Information Security	Infrastructure	Physical Layer		3), 17 April 1990.	Framework	Security	Services	Network
inionnation Security	IIIIIasiiuciuie	r Hysical Layer		ATM Forum, af-sec-	Tallework	Security	Services	INCLWOIN
				0096.000, ATM				
				Security Framework	0 ' 51 '(N.C. A. N	
	Networks and				Service Platform and	Hardware /	Wide Area Network	Asynchronous
Information Security	Infrastructure	Link Layer		1998.	Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
				ATM Forum, af-sec-				
				0100.002, ATM				
				Security Specification				
				Version 1.1, March				
	Networks and			2001.	Service Platform and	Hardware /	Wide Area Network	Asynchronous
Information Security	Infrastructure	Link Layer			Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
				Intrusion Detection				
				System Analyzer				
				Protection Profile,				
	Supporting	Intrusion Detection	Intrusion Detection	Draft 3, IATF, 15	Component		Supporting Security	
Information Security	Infrastructures	Systems	Devices	September 2000.	Framework	Security	Services	Intrusion Detection
om Gooding	dot. dota. oo	- Cystome	2011000	Intrusion Detection	· · · · · · · · · · · · · · · · · · ·	Cooding	20000	made Detection
				System Sensor				
				Protection Profile,				
	Supporting	Intrusion Detection	Intrusion Detection	Draft 3, IATF, 15	Component		Supporting Security	
Information Coourit:					Framework	Coourity		Intrucion Detection
Information Security	Infrastructures	Systems	Devices	September 2000.	FIAITIEWUIK	Security	Services	Intrusion Detection
				Intrusion Detection				
				System Scanner				
				Protection Profile,				
	Supporting	Intrusion Detection	Intrusion Detection	Draft 3, IATF, 15	Component		Supporting Security	
Information Security	Infrastructures	Systems	Devices	September 2000.	Framework	Security	Services	Intrusion Detection

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				draft-ietf-idwg-beep-				
				idxp-04.txt, Intrusion				
	0 "		Intrusion Detection	Detection Exchange			0 " 0 "	
Info	Supporting	Intrusion Detection	Communications	Protocol (IDXP), 11	Component	0	Supporting Security	Intervalue Data diae
nformation Security	Infrastructures	Systems	Protocol	September 2001.	Framework	Security	Services	Intrusion Detection
				draft-ietf-idwg-idmef-				
				xml-06.txt, Data Model and Extensible				
				Markup Language				
				(XML) Document				
			Intrusion Detection	Type Definition, 18				
	Supporting	Intrusion Detection	Message Exchange	September 2001.	Service Interface and		Data Types /	Document Type
nformation Security	Infrastructures	Systems	Format	September 2001.	Integration	Interoperability	Validation	Definition (DTD)
normation Security	Illiastructures	Systems	1 Office	SDN.903, revision	integration	interoperability	Validation	Delinition (DTD)
				3.2, Secure Data				
				Network System				
				(SDNS) Key				
				Management Protocol				
	Supporting	Key Management		(KMP), 1 August	Component		Certificates / Digital	Digital Certificate
nformation Security	Infrastructures	Infrastructure		1989.	Framework	Security	Signature	Authentication
normation occurry	milastructures	minastractare		ITU-T	Tramework	Occurry	Olgitature	Addicitiodion
				Recommendation				
				X.509 (2000)/ISO/IEC				
				9594-8:2001,				
				Information				
				Technology – Open				
				Systems				
				Interconnection – The				
				Directory: Public Key				
				and Attribute				
				Certificate				
				Frameworks, 2001,				
				with Technical				
				Corrigendum 1:2002,				
	Supporting	Public-Key		and Technical	Component		Certificates / Digital	Digital Certificate
nformation Security	Infrastructures	Infrastructure	PKI Certificates	Corrigendum 2:2002.	Framework	Security	Signature	Authentication
				IETF RFC 2459,				
				Internet X.509 Public				
				Key Infrastructure				
				Certificate and CRL				
				Profile, January 1999,				
	Supporting	Public-Key		as profiled by TWG-	Component		Certificates / Digital	Digital Certificate
nformation Security	Infrastructures	Infrastructure	PKI Certificates	98-07.	Framework	Security	Signature	Authentication
				TWG-98-07, DoD				
				Certificate Policy,				
	Supporting	Public-Key		Version 6, 31 May	Component		Certificates / Digital	Digital Certificate
nformation Security	Infrastructures	Infrastructure	PKI Certificates	2002.	Framework	Security	Signature	Authentication

DISR IT Category	DISR Service Area	DISR Service Sub-	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service	FEA Service Sub-	FEA Standard Area
		Area		UETE DEC 0505		Category	Category	
				IETF RFC 2587,				
			B1(1.0 11 1	Internet X.509 Public				
		5	PKI Operational	Key Infrastructure			0 10 1 15 11 1	D. 1. 1. 0. 100 .
	Supporting	Public-Key	Protocol and	LDAPv2 Schema,	Component		Certificates / Digital	Digital Certificate
Information Security	Infrastructures	Infrastructure	Exchange Formats	June 1999.	Framework	Security	Signature	Authentication
				IETF RFC 2559,				
				Internet X.509 Public				
				Key Infrastructure				
			PKI Operational	Operational Protocols				
	Supporting	Public-Key	Protocol and	LDAPv2, April 1999.	Component		Certificates / Digital	Digital Certificate
Information Security	Infrastructures	Infrastructure	Exchange Formats		Framework	Security	Signature	Authentication
				RSA Laboratories				
1				Public Key				
				Cryptography				
				Standard #12, v1.0:				
				Personal Information				
			PKI Operational	Exchange Syntax				
	Supporting	Public-Key	Protocol and	Standard, RSA, 24	Component		Certificates / Digital	Digital Certificate
Information Security	Infrastructures	Infrastructure	Exchange Formats	June 1999.	Framework	Security	Signature	Authentication
miorination occurry	minastractares	Illiastractare	Exchange i official	RSA Laboratories	Tranicwork	Cooding	Gignature	rationioation
				Public Key				
				,				
				Cryptography				
				Standard (PKCS)				
				#15, v1.1:				
			B1(1.0 11 1	Cryptographic Token				
			PKI Operational	Information Format				
	Supporting	Public-Key	Protocol and	Standard, RSA, 6	Component		Certificates / Digital	Digital Certificate
Information Security	Infrastructures	Infrastructure	Exchange Formats	June 2000.	Framework	Security	Signature	Authentication
				IETF RFC 2315,				
				Public Key				
				Cryptography				
				Standard (PKCS) #7,				
				Cryptographic				
				Message Syntax,				
	Supporting	Public-Key	PKI Management	Version 1.5, March	Component		Certificates / Digital	Digital Certificate
Information Security	Infrastructures	Infrastructure	Protocols	1998.	Framework	Security	Signature	Authentication
•				IETF RFC 2314,				
				PKCS #10,				
				Certification Request				
	Supporting	Public-Key	PKI Management	Syntax, Version 1.5,	Component		Certificates / Digital	Digital Certificate
Information Security	Infrastructures	Infrastructure	Protocols	March 1998.	Framework	Security	Signature	Authentication
omation occurry		aoti dotaro	0.0000	RSA Laboratories	amowork	Cooding	Oignataro	automioution
				Public Key				
				Cryptography				
				Standard (PKCS)				
				` '				
				#11, v2.10:				
	0	Dublic Ka		Cryptographic Token	0		0	District Courts
	Supporting	Public-Key	DIGI A DI	Interface Standard,	Component	0 11	Certificates / Digital	Digital Certificate
Information Security	Infrastructures	Infrastructure	PKI API	December 1999.	Framework	Security	Signature	Authentication

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				IETF RFC 2437,				
				PKCS #1: RSA				
				Cryptography				
	Cupporting	Public-Key		Specifications Version 2.0. October 1998.			Cartificates / Digital	Digital Certificate
Information Security	Supporting Infrastructures	Infrastructure	PKI Cryptography	2.0, October 1996.	Component Framework	Security	Certificates / Digital Signature	Authentication
inionnation Security	Illiastructures	Illiastructure	r Ki Cryptography	FIPS PUB 140-2,	Tamework	Security	Signature	Authentication
				Security				
				Requirements for				
				Cryptographic				
	Supporting	Public-Key		Modules, 25 May	Component		Certificates / Digital	Digital Certificate
Information Security	Infrastructures	Infrastructure	PKI Cryptography	2001.	Framework	Security	Signature	Authentication
				FIPS PUB 46-3, Data				
				Encryption Standard,				
	Supporting	Public-Key		NIST, 25 October	Component		Certificates / Digital	Digital Certificate
Information Security	Infrastructures	Infrastructure	PKI Cryptography	1999.	Framework	Security	Signature	Authentication
				FIPS PUB 180-1,				
				Secure Hash			0 10 1 10 10 10 10	D. 1. 1. 0 . 100
	Supporting	Public-Key	DIVI O	Algorithm, 17 April	Component		Certificates / Digital	Digital Certificate
Information Security	Infrastructures	Infrastructure	PKI Cryptography	1995.	Framework	Security	Signature	Authentication
				FIPS PUB 197,				
				Advanced Encryption Standard (AES),				
	Supporting	Public-Key		NIST, 26 November	Component		Certificates / Digital	Digital Certificate
Information Security	Infrastructures	Infrastructure	PKI Cryptography	2001.	Framework	Security	Signature	Authentication
inionnation decurity	iiiiastructures	Illiastructure	1 Ki Oryptograpny	ICD-GPS-200C,	Tamework	Occurry	Olgitature	Admentication
				NAVSTAR GPS				
				Space				
				Segment/Navigation				
		Global Positioning		User Interfaces, 12	Service Platform and	Hardware /	Satellite	Global Positioning
Information Transfer	End-Systems	System		April 2000.	Infrastructure	Infrastructure	Communications	System (GPS)
				ICD-GPS-222A,				
				NAVSTAR GPS UE				
				Auxiliary Output Chip				
	F 10 1	Global Positioning		Interface (U), 26 April	Service Platform and	Hardware /	Satellite	Global Positioning
Information Transfer	End-Systems	System		1996.	Infrastructure	Infrastructure	Communications	System (GPS)
				ICD-GPS-225A, NAVSTAR GPS				
				Selective				
				Availability/Anti-				
				spoofing Host				
				Application		1		
				Equipment Design				
				Requirements with		1		
				the Precise				
				Positioning Service		1		
		Global Positioning		Security Module (U),	Service Platform and	Hardware /	Satellite	Global Positioning
Information Transfer	End-Systems	System		12 March 1998.	Infrastructure	Infrastructure	Communications	System (GPS)

DISR IT Category	DISR Service Area	DISR Service Sub-	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service	FEA Service Sub-	FEA Standard Area
		Area		00 000 0044		Category	Category	
				SS-GPS-001A,				
				Navstar GPS				
				Selective				
				Availability/Anti-				
				Spoofing Module				
				System Specification,				
		Global Positioning		27 Sep 99.	Service Platform and	Hardware /	Satellite	Global Positioning
Information Transfer	End-Systems	System			Infrastructure	Infrastructure	Communications	System (GPS)
				ACP 123 Edition A,	Service Access and	Access Channels	Collaboration	Electronic Mail (E-
				Common Messaging	Delivery		Communications	mail)
				Strategy and	,			,
				Procedures, 15				
Information Transfer	End-Systems	Host Standards	Electronic Mail	August 1997				
				ACP 123 Edition A.	Service Access and	Access Channels	Collaboration	Electronic Mail (E-
				U.S. Supplement No.	Delivery	7 100000 01101111010	Communications	mail)
				1, Common	Donvory		Communications	many
				Messaging Strategy				
				and Procedures, 26				
Information Transfer	End Systems	Host Standards	Electronic Mail	June 2001.				
IIIIOIIIIalioii Italisiei	Enu-Systems	nosi Sianuarus	Electronic iviali	IETF RFC 2822,	Comiles Assess and	Access Channels	Collaboration	Electronic Mail (E-
				· · · · · · · · · · · · · · · · · · ·	Service Access and	Access Channels		,
	5 10 1			Internet Message	Delivery		Communications	mail)
Information Transfer	End-Systems	Host Standards	Electronic Mail	Format, April 2001.			0 " 1 "	E
				IETF RFC 2646, The	Service Access and	Access Channels	Collaboration	Electronic Mail (E-
				Text/Plain Format	Delivery		Communications	mail)
				Parameter, August				
Information Transfer	End-Systems	Host Standards	Electronic Mail	1999.				
				IETF RFC 3023, XML		Access Channels	Collaboration	Electronic Mail (E-
				Media Types, January	Delivery		Communications	mail)
Information Transfer	End-Systems	Host Standards	Electronic Mail	2001.				
			Web Services	IETF RFC 1738,	Service Access and	Access Channels	Other Electronic	Uniform Resource
				Uniform Resource	Delivery		Channels	Locator (URL)
				Locators (URL), 20				
Information Transfer	End-Systems	Host Standards		December 1994.				
			Web Services	IETF RFC 2396,	Service Access and	Access Channels	Other Electronic	Uniform Resource
				Uniform Resource	Delivery		Channels	Locator (URL)
				Identifiers (URI),	,			, ,
				Generic Syntax,				
nformation Transfer E	End-Systems	Host Standards		August 1998.				
				IETF RFCs 2045-				
				2049, Multipurpose				
				Internet Mail				
				Extensions (MIME)				Multipurpose Internet
				Parts 1-5, November	Service Access and		Supporting Network	Mail Extensions
Information Transfer	End Systems	Hoot Standards	Electronic Mail	•		Convice Transport		
Information Transfer	Enu-Systems	Host Standards	Electronic Mail	1996.	Delivery	Service Transport	Services	(MIME)

DISR IT Category	DISR Service Area	DISR Service Sub-	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service	FEA Service Sub-	FEA Standard Area
		Area				Category	Category	
				IETF RFC 2231,				
				MIME Parameter				
				Value and Encoded				
				Word Extensions:				
				Character Sets,				
				Languages, and				Multipurpose Internet
				Continuations,	Service Access and		Supporting Network	Mail Extensions
nformation Transfer	End-Systems	Host Standards	Electronic Mail	November 1997.	Delivery	Service Transport	Services	(MIME)
	,			IETF RFC 2821,	ŕ	'		,
				Simple Mail Transfer	Service Access and		Supporting Network	Simple Mail Transfer
nformation Transfer	End-Systems	Host Standards	Electronic Mail	Protocol, April 2001.	Delivery	Service Transport	Services	Protocol (SMTP)
				IETF RFC 1870,				(5)
				Simple Mail Transfer				
				Protocol Services				
				Extension for				
				Message Size				
				Declaration,	Service Access and		Supporting Network	Simple Mail Transfer
nformation Transfer	End-Systems	Host Standards	Electronic Mail	November 1995.	Delivery	Service Transport	Services	Protocol (SMTP)
mormation transier	Liid-Oysteilis	1 103t Otandards	Liectionic iviali	IETF RFC 1777,	Delivery	Dervice Transport	Octivides	T TOLOCOT (OWITT)
				Lightweight Directory				
				Access Protocol,				
				March 1995.	Service Access and		Supporting Network	Directory Services
nformation Transfer	End-Systems	Host Standards	Directory Services	Maich 1995.	Delivery	Service Transport	Services	(LDAP / X.500 / DEN)
IIIOIIIIalioii ITalisiei	End-Systems	nosi Sianuaius	Directory Services	IETF RFC 2251,	Delivery	Service Transport	Services	(LDAF / A.300 / DEN)
				Lightweight Directory				
				Access Protocol				
				Version 3, December	Service Access and		Cupporting Notwork	Directory Services
nformation Transfer	End-Systems	Host Standards	Directory Services	1997.	Delivery	Service Transport	Supporting Network Services	(LDAP / X.500 / DEN)
niornation transfer	End-Systems	nosi Sianuarus	Directory Services	ITU-T X.500, The	Delivery	Service Transport	Services	(LDAP / A.300 / DEN)
				Directory – Overview				
				of Concepts, Models,				
				and Services – Data				
				Communication				
				Networks Directory,				D:
				1993.	Service Access and		Supporting Network	Directory Services
nformation Transfer	End-Systems	Host Standards	Directory Services		Delivery	Service Transport	Services	(LDAP / X.500 / DEN)
				IETF RFC 3152,				
				Delegation of				
	L			IP6.ARPA, August	Service Access and		Supporting Network	Directory Services
nformation Transfer	End-Systems	Host Standards	Directory Services	2001.	Delivery	Service Transport	Services	(LDAP / X.500 / DEN)
				Directory Enabled				
				Networking (NCOW	Service Access and		Supporting Network	Directory Services
nformation Transfer	End-Systems	Host Standards	Directory Services	RM TTV)	Delivery	Service Transport	Services	(LDAP / X.500 / DEN)

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				IETF Standard 5/RFC			<u> </u>	
				791/RFC 950/RFC				
				919/RFC 922/RFC				
				792/RFC 1112,				
				Internet Protocol,				
				September 1981. In				
				addition, all				
				implementations of IP				
				must pass the 8-bit				
				Type-of-Service				
				(TOS) byte				
				transparently up and				
				down through the				
				transport layer as				
				defined in IETF				
				Standard 3,				
				Requirements for				
				Internet Hosts,				
				Communications				
				Layers, October 1989.	Service Access and			
Information Transfer	End-Systems	Host Standards	Network Services	Layers, October 1909.	Delivery	Service Transport	Service Transport	Internet Protocol (IP)
monnation manater	Liid-Oysteilis	1 103t Otaridards	INCLINOIR DELVICES	IETF RFC 2236,	Delivery	Dervice Transport	Octvice Transport	internet i rotocoi (ii)
				Internet Group				
				Management				
				Protocol, Version 2				
				(IGMPv2), November	Service Access and			
Information Transfer	End-Systems	Host Standards	Network Services	(1997.	Delivery	Service Transport	Service Transport	Internet Protocol (IP)
illioilliation Hansiel	End-Systems	nosi Sianuaius	Network Services	IETF RFC 2460,	Delivery	Service Transport	Service Transport	internet Frotocoi (IF)
				Internet Protocol,				
				Version 6 (IPv6)	Comiles Assessed			
Information Transfer	Find Cyatama	Llook Chandoudo	Nativalis Camilaga	Specification,	Service Access and	Comitos Trononort	Comition Transport	Intornat Dratacal (ID)
Information Transfer	End-Systems	Host Standards	Network Services	December 1998.	Delivery	Service Transport	Service Transport	Internet Protocol (IP)
				IETF RFC 2461,				
				Neighbor Discovery				
				for IP Version 6,	Comiles Assessed			
	First Overtown	Haat Otan danda	National Complete	(IPv6), December	Service Access and	O - m d Tu-u-u-u-u	O i T	lata was t Dusta as L (ID)
Information Transfer	End-Systems	Host Standards	Network Services	1998. IETF RFC 2462, IPv6	Delivery	Service Transport	Service Transport	Internet Protocol (IP)
				Stateless Address				
				Autoconfiguration,				
	E 10 .			December 1998.	Service Access and			
Information Transfer	End-Systems	Host Standards	Network Services	UETE DEC 0400	Delivery	Service Transport	Service Transport	Internet Protocol (IP)
				IETF RFC 2463,				
				Internet Control				
				Message Protocol				
	F 10 1			(ICMPv6) for the	Service Access and			
Information Transfer	End-Systems	Host Standards	Network Services	Internet Protocol	Delivery	Service Transport	Service Transport	Internet Protocol (IP)
				Version 6 (IPv6)				
	F 10 1			Specification,	Service Access and			
Information Transfer	Ena-Systems	Host Standards	Network Services	December 1998.	Delivery	Service Transport	Service Transport	Internet Protocol (IP)

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				IETF Standard 8/RFC				
				854/RFC 855,				
				TELNET Protocol,	Service Access and			
Information Transfer	End-Systems	Host Standards	Remote Terminal	May 1983.	Delivery	Service Transport	Service Transport	Internet Protocol (IP)
			Web Services	IETF RFC 2616,				
				Hypertext Transfer				Commontionland Data
				Protocol – HTTP/1.1, June 1999.	Service Access and			Connectionless Data Transfer (HTTP,
Information Transfer	formation Transfer End-Systems Host	Host Standards		Julie 1999.	Delivery	Service Transport	Service Transport	HTTPS, Real-Time)
IIIIOIIIIalioii ITalisiei	End-Systems	HOSt Standards	Web Services	IETF RFC 2616,	Delivery	Service Transport	Service Transport	HTTF3, Real-Tille)
			Web Services	Hypertext Transfer				
				Protocol – HTTP/1.1,				Connectionless Data
				June 1999.	Service Access and			Transfer (HTTP,
Information Transfer	End-Systems	Host Standards		Gano 1000.	Delivery	Service Transport	Service Transport	HTTPS, Real-Time)
	zna cyclonic	i root otarida do		MIL-STD-2045-	20	Corrido rianoport	Control manaport	, , , , , , , , , , , , , , , , , , ,
				47001C.				
				Connectionless Data				
				Transfer Application				Connectionless Data
			Connectionless Data		Service Access and			Transfer (HTTP,
Information Transfer	End-Systems	Host Standards	Transfer	March 2002.	Delivery	Service Transport	Service Transport	HTTPS, Real-Time)
	•			IETF Standard 9/RFC	į	·	·	
				959, File Transfer				
				Protocol, October				
				1985, with the				
				following FTP				
				commands mandated				
				for reception: Store				
				unique (STOU), Abort				
				(ABOR), and Passive				
				(PASV) system.				
					Service Access and			File Transfer Protocol
Information Transfer	End-Systems	Host Standards	File Transfer		Delivery	Service Transport	Service Transport	(FTP)
				IETF RFC 2228, File				
				Transfer Protocol,	Service Access and			File Transfer Protocol
Information Transfer	End-Systems	Host Standards	File Transfer	October 1997.	Delivery	Service Transport	Service Transport	(FTP)
				IETF RFC 2428, FTP				
				Extensions for IPv6				
				and Network Address				
				Translators (NATs),	0			File Tressetes Duestes el
latana tian Tana tan	F., d O.,	114 Ot	Г:: - Т	September 1998.	Service Access and	O - m di - a Tura - m - mt	O	File Transfer Protocol
Information Transfer	End-Systems	Host Standards	File Transfer	00000 740 0 0	Delivery	Service Transport	Service Transport	(FTP)
				CCSDS 713.0-B-				
				1/ISO 15891:2000,				
				Space data and				
				information transfer systems – Protocol				
			Communication	,				Communication
				specification for				Protocols for High-
			Protocols for High- Stress, Resource-	space				Stress, Resource-
			Constrained	communications – Network protocol, 5	Service Access and			Constrained
Information Transfer	End-Systems	Host Standards	Environments	October 2000.	Delivery	Service Transport	Service Transport	Environments
illioillation HailStel	Liiu-Systeilis	i iosi Sianuaius	LIMIOIIIIEIIIS	Octobel 2000.	Delivery	Service Transport	Service Transport	LIMITOTITIETIES

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				CCSDS 713.5-B-				
				1/ISO 15892:2000,				
				Space data and				
				information transfer				
				systems - Protocol				
			Communication	specification for				Communication
			Protocols for High-	space				Protocols for High-
			Stress, Resource-	communications -				Stress, Resource-
			Constrained	Security protocol, 5	Service Access and			Constrained
nformation Transfer End-Systems	Host Standards	Environments	October 2000.	Delivery	Service Transport	Service Transport	Environments	
Indian Transfer End-Systems Prost Stand			CCSDS 714.0-B-					
				1/ISO 15893:2000,				
				Space data and				
				information transfer				
				systems – Protocol				
			Communication	specification for				Communication
			Protocols for High-	space				Protocols for High-
			Stress, Resource-	communications –				Stress, Resource-
			Constrained	Transport protocol, 5	Service Access and			Constrained
nformation Transfer	End-Systems	Host Standards	Environments	October 2000.	Delivery	Service Transport	Service Transport	Environments
nonnation transfer	End-Systems	nosi Sianuarus	Environments	CCSDS 717.0-B-	Delivery	Service Transport	Service Transport	Environments
				1/ISO 15894:2000.				
				Space data and				
				information transfer				
				systems – Protocol				
			Communication	specification for				Communication
			Protocols for High-	space				Protocols for High-
			Stress, Resource-	communications -				Stress, Resource-
			Constrained	File protocol, 5	Service Access and			Constrained
nformation Transfer	End-Systems	Host Standards	Environments	October 2000.	Delivery	Service Transport	Service Transport	Environments
				IETF Standard 3				
				(RFC 1122 and RFC				
				1123), Requirements				
				for Internet Hosts,	Service Access and			
nformation Transfer	End-Systems	Host Standards		October 1989.	Delivery	Service Transport	Service Transport	Hosting
				Mobile Networking	Service Access and			
nformation Transfer	End-Systems	Host Standards	Transport Services	(NCOW RM TTV)	Delivery	Service Transport	Service Transport	Transport Services
				IETF RFC 2581, TCP				
				Congestion Control,	Service Access and			
nformation Transfer	End-Systems	Host Standards	Transport Services	April 1999.	Delivery	Service Transport	Service Transport	Transport Services
			·	IETF Standard 6/RFC			·	
				768, User Datagram				
				Protocol, 28 August	Service Access and			
nformation Transfer	End-Systems	Host Standards	Transport Services	1980.	Delivery	Service Transport	Service Transport	Transport Services
formation Transfer Er	,			IETF RFC 2126, ISO	- /			
					1	1	1	1
				Transport Service on				
				Transport Service on Top of TCP (ITOT),	Service Access and			

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				IETF RFC 1981, Path		<u> </u>		
				MTU Discovery for				
				IPv6, August 1996.	Service Access and			
Information Transfer	End-Systems	Host Standards	Transport Services	-	Delivery	Service Transport	Service Transport	Transport Services
				IETF RFC 2473,				
				Generic Packet				
				Tunneling in IPv6				
				Specification,	Service Access and			
Information Transfer	End-Systems	Host Standards	Transport Services	December 1998.	Delivery	Service Transport	Service Transport	Transport Services
				IETF RFC 2710,				
				Multicast Listener				
				Discovery (MLD) for	Service Access and			
Information Transfer	End-Systems	Host Standards	Transport Services	IPv6, October 1999.	Delivery	Service Transport	Service Transport	Transport Services
				IETF RFC 3513,				
				Internet Protocol				
				Version 6 (IPv6)				
				Addressing				
				Architecture, April	Service Access and			
Information Transfer	End-Systems	Host Standards	Transport Services	2003.	Delivery	Service Transport	Service Transport	Transport Services
				IETF RFC 3587, IPv6				
				Global Unicast				
				Address Format,	Service Access and			
Information Transfer	End-Systems	Host Standards	Transport Services	August 2003.	Delivery	Service Transport	Service Transport	Transport Services
				IETF RFC 2794,				
				Mobile IP Network				
				Access Identification				
				Extension for IPv4,	Service Access and			
Information Transfer	End-Systems	Host Standards	Transport Services	March 2000.	Delivery	Service Transport	Service Transport	Transport Services
				IETF RFC 3344, IP				
				Mobility Support for	Service Access and			
Information Transfer	End-Systems	Host Standards	Transport Services	IPv4, August 2002.	Delivery	Service Transport	Service Transport	Transport Services
				IETF RFC 2507, IP				
				Header Compression,				
				February 1999.	Service Access and			
Information Transfer	End-Systems	Host Standards	Transport Services		Delivery	Service Transport	Service Transport	Transport Services
				Emerging Transport				
				Services (NCOW RM	Service Access and			
Information Transfer	End-Systems	Host Standards	Transport Services	TTV)	Delivery	Service Transport	Service Transport	Transport Services
					Service Access and			
Information Transfer	End-Systems	Host Standards	Web Services	IETF RFC 2732, Form	Delivery	Service Transport	Service Transport	Transport Services
				ITU-T				
				Recommendation				
				H.323, Packet-Based				
				Multimedia				
				Communications				
				Systems (Version 2),	Service Platform and	Hardware /	Voice	
nformation Transfer Er	End-Systems	Host Standards	Voice Over IP	February 1998.	Infrastructure	Infrastructure	Communications	
				IETF RFC 3261,				
				Session Initiation	Service Platform and	Hardware /	Voice	
Information Transfer	End-Systems	Host Standards	Voice Over IP	Protocol, June 2002.	Infrastructure	Infrastructure	Communications	

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area		FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				IETF RFC 3015,				
				Megaco Protocol				
				Version 1.0,	Service Platform and	Hardware /	Voice	
Information Transfer	End-Systems	Host Standards	Voice Over IP	November 2000.	Infrastructure	Infrastructure	Communications	
				IETF RFC 1889, RTP:				
				A Transport Protocol				
				for Real-Time	Ormites Distance and	Handrian I	\/-!	
nformation Transfer End-Systems	Llast Ctandonda	Vaina Over ID	Applications, January		Hardware /	Voice		
	Host Standards	Voice Over IP	1996. IETF RFC 2205,	Infrastructure	Infrastructure	Communications		
				Resource				
				ReSerVation Protocol				
				RSVP Version 1				
				Functional				
				Specification,	Service Platform and		Service Level	
Information Transfer	End-Systems	Host Standards	Quality of Service	September 1997.	Infrastructure	Network Operations	Management	
	,		, , , , , , , , , , , , , , , , , , , ,	Service Level				
				Agreement (NCOW	Service Platform and		Service Level	
Information Transfer	End-Systems	Host Standards	Quality of Service	RM TTV)	Infrastructure	Network Operations	Management	
				Quality of Service	Service Platform and		Service Level	
Information Transfer	End-Systems	Host Standards	Quality of Service	(NCOW RM TTV)	Infrastructure	Network Operations	Management	
				Class of Service	Service Platform and		Service Level	
Information Transfer	End-Systems	Host Standards	Quality of Service	(NCOW RM TTV)	Infrastructure	Network Operations	Management	
				Common Open Policy				
				Service (NCOW RM	Service Platform and		Service Level	
Information Transfer	End-Systems	Host Standards	Quality of Service	TTV)	Infrastructure	Network Operations	Management	
				ITU-T P.800, Methods				
				for Subjective				
				Determination of Transmission, August				
				1996.	Service Platform and		Service Level	
Information Transfer	End-Systems	Host Standards	Quality of Service	1330.	Infrastructure	Network Operations	Management	
momation manage	Life Oysteriis	1 lost Gtaridards	Quality of Oct vice	ITU-T P.862.	imastractare	rectwork operations	Management	
				Perceptual Evaluation				
				of Speech Quality				
				(PESQ), an Objective				
				Method for End-to-				
				End Speech Quality				
				Assessment of				
				Narrowband				
				Telephone Networks				
				and Speech Codecs,				
				February 2002.				
					Service Platform and		Service Level	
Information Transfer	End-Systems	Host Standards	Quality of Service		Infrastructure	Network Operations	Management	

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				IETF RFC 2205,				
				Resource				
				ReSerVation Protocol				
				(RSVP) – Version 1				
				Functional				
				Specification,	Service Platform and		Service Level	
Information Transfer	End-Systems	Host Standards	Quality of Service	September 1997.	Infrastructure	Network Operations	Management	
				IETF RFC 2207,				
				RSVP Extensions for				
				IPSEC Data Flows,	Ormites Distance and		On middle I accord	
Information Transfer	Frad Customs	Llook Chandoudo	Ovality of Comica	September 1997.	Service Platform and	Naturals Operations	Service Level	
Information Transfer	End-Systems	Host Standards	Quality of Service	IETE DEC 0040. The	Infrastructure	Network Operations	Management	
				IETF RFC 2210, The				
				Use of RSVP with				
				IETF Integrated	Comiles Dietforms and		Comitoe Lovel	
Information Transfer	End Systems	Hoot Standarda	Quality of Convice	Services, September	Service Platform and	Natural Operations	Service Level	
Information Transfer	End-Systems	Host Standards	Quality of Service	1997. IETF RFC 2380,	Infrastructure	Network Operations	Management	
				RSVP over ATM				
				Implementation				
				Requirements, August	Sorvice Platform and		Service Level	
Information Transfer	End-Systems	Host Standards	Quality of Service	1998.	Infrastructure	Network Operations	Management	
IIIIOIIIIalioii ITalisiei	Liiu-Systems	1 105t Standards	Quality of Service	IETF RFC 2474,	illiastructure	Network Operations	Management	
				Definition of the				
				Differentiated				
				Services Field (DS				
				Field) in the IPv4 and				
				IPv6 Headers,	Service Platform and		Service Level	
Information Transfer	End-Systems	Host Standards	Quality of Service	December 1998.	Infrastructure	Network Operations	Management	
- International Francisco		1.1001.0101.00	addity of control	IETF RFC 3031, Multi-		riotironi operatione	management	
				protocol Label				
				Switching				
				Architecture, January	Service Platform and		Service Level	
Information Transfer	End-Systems	Host Standards	Quality of Service	2001.	Infrastructure	Network Operations	Management	
- International Francisco		1.1001.0101.00	addity of control	IETF RFC 3168, The	acti actare	riotironi operatione	management	
				Addition of Explicit				
				Congestion				
				Notification (ECN) to	Service Platform and		Service Level	
Information Transfer	End-Systems	Host Standards	Quality of Service	IP, September 2001.	Infrastructure	Network Operations	Management	
	ŕ		,	IETF RFC 3175,		,	, and the second	
				Aggregation of RSVP				
				for IPv4 and IPv6				
				Reservations,	Service Platform and		Service Level	
Information Transfer	End-Systems	Host Standards	Quality of Service	September 2001.	Infrastructure	Network Operations	Management	
	·			IETF RFC 1305,				
				Network Time				
				Protocol (Version 3)				
				Specification,				
				Implementation, and				
			Network Time	Analysis, March 1992.	Service Platform and			
Information Transfer	End-Systems	Host Standards	Synchronization	1	Infrastructure	Network Operations	Network Management	

DISR IT Category	DISR Service Area	DISR Service Sub-	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service	FEA Service Sub-	FEA Standard Area
		Area		-		Category	Category	
				ITU-T T.122,				
				Multipoint				
				Communications				
				Service - Service				
		Video		Definition, February	Service Platform and	Hardware /		
Information Transfer	End-Systems	Teleconferencing		1998.	Infrastructure	Infrastructure	Video Conferencing	Bridge
	·	Ţ.		ITU-T T.123, Network				- Control of the cont
				 Specific Data 				
				Protocol Stacks for				
				Multimedia				
				Conferencing, May				
		Video		1999.	Service Platform and	Hardware /		
Information Transfer	End-Systems	Teleconferencing			Infrastructure	Infrastructure	Video Conferencing	Bridge
	Í	J		ITU-T T.124, Generic				Ū
		Video		Conference Control,	Service Platform and	Hardware /		
Information Transfer	End-Systems	Teleconferencing		February 1998.	Infrastructure	Infrastructure	Video Conferencing	Bridge
-				ITU-T T.125,				Ĭ
				Multipoint				
				Communications				
				Service Protocol				
		Video		Specification,	Service Platform and	Hardware /		
Information Transfer	End-Systems	Teleconferencing		February 1998.	Infrastructure	Infrastructure	Video Conferencing	Bridge
				ITU-T T.126,				
				Multipoint Still Image				
				and Annotation				
		Video		Protocol, July 1997.	Service Platform and	Hardware /		
Information Transfer	End-Systems	Teleconferencing			Infrastructure	Infrastructure	Video Conferencing	Bridge
				ITU-T T.127,				
				Multipoint Binary File				
				Transfer Protocol,				
		Video		August 1995.	Service Platform and	Hardware /		
Information Transfer	End-Systems	Teleconferencing			Infrastructure	Infrastructure	Video Conferencing	Bridge
	,			ITU-T T.128,				. 3-
				Multipoint Application				
		Video		Sharing, February	Service Platform and	Hardware /		
Information Transfer	End-Systems	Teleconferencing		1998.	Infrastructure	Infrastructure	Video Conferencing	Bridge
				ITU-T H.248,				
		Video		Gateway Control	Service Platform and	Hardware /		
Information Transfer	End-Systems	Teleconferencing		Protocol, June 2000.	Infrastructure	Infrastructure	Video Conferencing	Bridge
	Ziia Gyotoiiio	T G G G G G G G G G G G G G G G G G G G		IETF RFC 3435,	act. dota.o	dot. dotaro	Tidde comercianing	2.1.490
				Media Gateway				
				Control Protocol				
		Video		(MGCP) Version 1.0,	Service Platform and	Hardware /		
Information Transfer	End-Systems	Teleconferencing		January 2003.	Infrastructure	Infrastructure	Video Conferencing	Bridge
		. c.soomoronomy		ITU-T G.711, Pulse	aotraotaro		. idoo comoronomy	90
				Code Modulation				
				(PCM) of Voice				
		Video		Frequencies,	Service Platform and	Hardware /		
Information Transfer	End-Systems			•		Infrastructure	Video Conferencing	CODEC
mormation transfer	Enu-Systems	Teleconferencing	1	November 1988.	Infrastructure	mmastructure	video Conterencing	CODEC

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				ITU-T G.728, Coding				
				of Speech at 16 kbit/s				
				Using Low-Delay				
				Code Excited Linear				
		Video		Prediction, September		Hardware /		
Information Transfer	End-Systems	Teleconferencing		1992.	Infrastructure	Infrastructure	Video Conferencing	CODEC
				ITU-T G.722, 7 kHz				
				Audio-Coding Within		,		
		Video		64 kbit/s, November	Service Platform and	Hardware /		00050
Information Transfer	End-Systems	Teleconferencing		1988.	Infrastructure	Infrastructure	Video Conferencing	CODEC
				ITU-T H.261, Video				
				CODEC for				
		\ \(\text{\text{\$\cdot\}} \)		Audiovisual Services	0 . D. (
	5 10 1	Video		at p x 64 kbit/s, March		Hardware /		00050
Information Transfer	End-Systems	Teleconferencing		1993.	Infrastructure	Infrastructure	Video Conferencing	CODEC
				ITU-T T.81,				
				Information				
				Technology – Digital				
		\ r \		Compression and	0 ' 5' '	. , ,		
Info	First Overtone	Video			Service Platform and	Hardware /	\/; d = = 0 = = f = = = = i = =	00050
Information Transfer	End-Systems	Teleconferencing		tone Still	Infrastructure	Infrastructure	Video Conferencing	CODEC
				Images –				
		\		Requirements and	O	11		
lata and the Taxable	F., d. O.,	Video		Guidelines,	Service Platform and	Hardware /	\(\tau_1 = 0 = 4 = 0 = 1 = 1	00050
Information Transfer	End-Systems	Teleconferencing		September 1992.	Infrastructure	Infrastructure	Video Conferencing	CODEC
				ITU-T T.82,				
				Information				
				Technology – Coded				
				Representation of Picture and Audio				
				Information –				
				Progressive Bi-level				
		Video		Image Compression,	Service Platform and	Hardware /		
Information Transfer	End-Systems	Teleconferencing		March 1993.	Infrastructure	Infrastructure	Video Conferencing	CODEC
IIIOIIIalioii Italisiei	Litu-Systems	relecontenenting		ITU-T H.264/ISO/IEC	iiiiasiiuciule	illiastructure	Video Contending	CODEC
				FCD 14496-10,				
		Video		Advanced Video	Service Platform and	Hardware /		
Information Transfer	End-Systems	Teleconferencing		Coding, July 2002.	Infrastructure	Infrastructure	Video Conferencing	CODEC
		. s.soomoromonig		ITU-T H.225.0, Call	astruoturo		. idoo comoronomy	00000
				Signaling Protocols				
				and Media Stream				
				Packetization for				
				Packet-Based				
				Multimedia				
				Communications				
		Video		Systems, February	Service Platform and	Hardware /		
Information Transfer	End-Systems	Teleconferencing		1998.	Infrastructure	Infrastructure	Video Conferencing	Receiver

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				ITU-T H.245, Control				
				Protocol for				
				Multimedia				
		Video		Communications,	Service Platform and	Hardware /		
Information Transfer	End-Systems	Teleconferencing		February 1998.	Infrastructure	Infrastructure	Video Conferencing	Receiver
				ITU-T H.323, Packet-				
				based Multimedia				
				Communications				
		Video		Systems, November	Service Platform and	Hardware /		
Information Transfer	End-Systems	Teleconferencing		2000.	Infrastructure	Infrastructure	Video Conferencing	Receiver
				IETF RFC 3261,				
				Session Initiation				
		Video		Protocol (SIP), June	Service Platform and	Hardware /		
Information Transfer	End-Systems	Teleconferencing		2002.	Infrastructure	Infrastructure	Video Conferencing	Receiver
		Video						
		Teleconferencing			Service Access and		Supporting Network	
Information Transfer	End-Systems	Standards		ITU-T T.120, Data Pro	Delivery	Service Transport	Services	T.120
	·	Video						
		Teleconferencing			Service Access and		Supporting Network	
Information Transfer	End-Systems	Standards		ITU-T H.323, Packet-b	Delivery	Service Transport	Services	H.323
	,			Aeronautical	Í	·		
				Telecommunications:				
				Appendix 10 to the				
				Convention on				
				International Civil				
				Aviation, Volume IV				
				(Surveillance Radar				
				and Collision				
				Avoidance Systems),				
				Edition 1,				
				International Civil				
				Aviation Organization				
				(ICAO): Montreal,				
				1995, with				
				Supplements (31 May				
	Identification Friend or			1996 and 10	Component			Identification Friend
Information Transfer	Foe			November 1997).	Framework	Data Interchange	Data Exchange	or Foe (IFF)
				DOT FAA 1010.51A,		Ĭ	Ŭ	,
				US National Aviation				
				Standard for the Mark				
				X (SIF) Air Traffic				
				Control Radar Beacon	n			
				System (ATCRBS)				
				Characteristics, 8				
	Identification Friend or			March 1971.	Component			Identification Friend
Information Transfer	Foe			1	Framework	Data Interchange	Data Exchange	or Foe (IFF)

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				DoD AIMS 97-1000,				
				Performance/Design				
				and Qualification				
				Requirements				
				Technical Standard				
				For The ATCRBS/				
				IFF/ MARK XII				
				Electronic				
				Identification System				
				and Military Mode S,				
	Identification Friend or			18 March 1998.	Component			Identification Friend
Information Transfer	Foe				Framework	Data Interchange	Data Exchange	or Foe (IFF)
				DoD AIMS 97-900,				
				Performance/Design				
				And Qualification				
				Requirements Mode 4				
	Identification Friend or			Input/Output Data, 18	Component			Identification Friend
Information Transfer	Foe			March 1998.	Framework	Data Interchange	Data Exchange	or Foe (IFF)
				DoD AIMS 03-1000				
				Mark XIIA,				
				Performance/Design				
				and Qualification				
				Requirements				
				Technical Standard				
				for the ATCRBS/				
				IFF/MARK XIIA				
				Electronic				
				Identification System				
	Identification Friend or			and Military Mode S.	Component			Identification Friend
Information Transfer	Foe			•	Framework	Data Interchange	Data Exchange	or Foe (IFF)
				IETF RFC 2236,				
				Internet Group				
				Management				
				Protocol, Version 2				
				(IGMP v2), November	Service Access and			
Information Transfer	Network	Internet Protocol		1997.	Delivery	Service Transport	Service Transport	Internet Protocol (IP)
				IETF RFC 2460,				
				Internet Protocol,				
				Version 6 (IPv6)				
				Specification,	Service Access and			
Information Transfer	Network	Internet Protocol		December 1998.	Delivery	Service Transport	Service Transport	Internet Protocol (IP)
				IETF RFC 2461,				
				Neighbor Discovery				
				for IP Version 6,				
				(IPv6), December	Service Access and			
Information Transfer	Network	Internet Protocol		1998.	Delivery	Service Transport	Service Transport	Internet Protocol (IP)
				IETF RFC 2462, IPv6	,			
				Stateless Address				
				Autoconfiguration,				
				December 1998.	Service Access and	1		
				December 1998.	Service Access and			

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				IETF RFC 2463,				
				Internet Control				
				Message Protocol				
				(ICMPv6) for the	Service Access and			
Information Transfer	Network	Internet Protocol		Internet Protocol	Delivery	Service Transport	Service Transport	Internet Protocol (IP)
				Version 6 (IPv6)				
				Specification,	Service Access and			
Information Transfer	Network	Internet Protocol		December 1998.	Delivery	Service Transport	Service Transport	Internet Protocol (IP)
				IETF RFC 1981, path				
				MTU Discovery for				
			IPv6, August 1996.	Service Access and				
Information Transfer	Network	Internet Protocol			Delivery	Service Transport	Service Transport	Internet Protocol (IP)
				IETF RFC 2710,				
				Multicast Listener				
				Discovery (MLD) for	Service Access and			
Information Transfer	Network	Internet Protocol		IPv6, October 1999.	Delivery	Service Transport	Service Transport	Internet Protocol (IP)
				IETF RFC 3513,				
				Internet Protocol				
				Version 6 (IPv6)				
				Addressing				
				Architecture, April	Service Access and			
Information Transfer	Network	Internet Protocol		2003.	Delivery	Service Transport	Service Transport	Internet Protocol (IP)
				IETF RFC 3587, IPv6				
				Global Unicast				
lafa T T	NI-6	Into most Donate and		Address Format,	Service Access and	O	O	latera et Dante est (ID)
Information Transfer	Network	Internet Protocol		August 2003. IETF RFC 2794,	Delivery	Service Transport	Service Transport	Internet Protocol (IP)
				Mobile IP Network				
				Access Identification	Comitos Assessand			
Information Transfer	Network	Internet Dreteral		Extension for IPv4, March 2000.	Service Access and	Comiles Transport	Camilaa Tuonanant	Internet Dreteral (ID)
Information Transfer	Network	Internet Protocol		IETF RFC 3344, IP	Delivery	Service Transport	Service Transport	Internet Protocol (IP)
					Contino Access and			
Information Transfer	Network	Internet Protocol		Mobility Support for IPv4, August 2002.	Service Access and	Service Transport	Service Transport	Internet Protocol (IP)
miormation transfer	Network	Internet Protocol		IETF RFC 2507, IP	Delivery	Service Transport	Service Transport	internet Protocol (IP)
				Header Compression,				
				February 1999.	Service Access and			
Information Transfer	Network	Internet Protocol		Febluary 1999.	Delivery	Service Transport	Service Transport	Internet Protocol (IP)
IIIIOIIIIalioii ITalisiei	INCLWOIN	Internet Frotocol		IETF RFC 1771, A	Delivery	Service Transport	Service Transport	internet Frotocol (IF)
				Border Gateway				
		Internet Protocol		Protocol 4 (BGP-4),	Service Access and		Supporting Network	Border Gateway
Information Transfer	Network	Routing		21 March 1995.	Delivery	Service Transport	Services	Protocol (BGP)
momunion mandel	TTOUTOIN	rtodung		IETF RFC 1772,	Donvory	COLVIDO HAMBPOIL	001 V1000	1 1010001 (DOI)
				Application of the				
				Border Gateway				
				Protocol in the				
		Internet Protocol		Internet, March 1995.	Service Access and		Supporting Network	Border Gateway
Information Transfer	Notwork	Routing		micriot, Maron 1990.	Delivery	Service Transport	Services	Protocol (BGP)

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				IETF RFC 2858,		<u> </u>		
				Multiprotocol				
		Internet Protocol		Extensions for BGP-4,	Service Access and		Supporting Network	Border Gateway
Information Transfer	Network	Routing		June 2000.	Delivery	Service Transport	Services	Protocol (BGP)
				IETF RFC 2545, Use		·		, ,
				of BGP-4				
				Multiprotocol				
				Extensions for IPv6				
				Inter-Domain Routing,				
		Internet Protocol		March 1999.	Service Access and		Supporting Network	Border Gateway
Information Transfer	nformation Transfer Network	Routing		maron root.	Delivery	Service Transport	Services	Protocol (BGP)
Ioination mansier Network	rtodanig		IETF Standard	Donvory	Corrido Transport	COLVICOS	Trotocor (BCT)	
				54/RFC 2328, Open				
				Shortest Path First				
		Internet Protocol		Routing Version 2,	Service Access and			Internet Protocol
Information Transfer	Notwork			April 1998.	Delivery	Convice Transport	Convice Transport	Routing (IP)
IIIIOIIIIalioii ITalisiei	INCLWOIK	Routing		IETF RFC 2740,	Delivery	Service Transport	Service Transport	Routing (IF)
		Internet Protocol			Service Access and			Internet Protocol
Information Transfer	Naturali			OSPF for IPv6,		Comiles Transport	Comitos Trononout	
Information Transfer	Network	Routing		December 1999.	Delivery	Service Transport	Service Transport	Routing (IP)
				Inter-Domain Routing				
		Internet Protocol		(NCOW RM TTV)	Service Access and			Internet Protocol
nformation Transfer Netwo	Network	Routing			Delivery	Service Transport	Service Transport	Routing (IP)
				Multicast Networking				
		Internet Protocol		(NCOW RM TTV)	Service Access and			Internet Protocol
Information Transfer	Network	Routing			Delivery	Service Transport	Service Transport	Routing (IP)
				Tag Switching for IP				
		Internet Protocol		Routing (NCOW RM	Service Access and			Internet Protocol
Information Transfer	Network	Routing		TTV)	Delivery	Service Transport	Service Transport	Routing (IP)
				IETF RFC 2131,				
				Dynamic Host				
				Configuration				Dynamic Host
		Internetworking		Protocol, March 1997.	Service Access and		Supporting Network	Configuration
Information Transfer	Network	(Router)			Delivery	Service Transport	Services	Protocol (DHCP)
				IETF RFC 2132,				
				DHCP Options and				
				BOOTP Vendor				Dynamic Host
		Internetworking		Extensions, March	Service Access and		Supporting Network	Configuration
Information Transfer	Network	(Router)		1997.	Delivery	Service Transport	Services	Protocol (DHCP)
mornation manere	Hotwork	(reacor)		IETF RFC 3315,	Donvory	Corvice Transport	COLVICOO	Trotocor (Brior)
				Dynamic Host				
				Configuration Protocol	1			
				for IPv6 (DHCPv6),	!			Dynamic Host
		Internetworking			Service Access and		Supporting Network	Configuration
Information Transfer	Notwork	•		July 2003.		Comico Transport		Protocol (DHCP)
Information Transfer	Network	(Router)		IETE Chandered	Delivery	Service Transport	Services	FIOLOCOI (DHCP)
				IETF Standard				
				13/RFC 1034/RFC				
				1035, Domain Name				
		Internetworking		System, November	Service Access and		Supporting Network	Domain Name
Information Transfer	Network	(Router)		1987.	Delivery	Service Transport	Services	System (DNS)

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				IETF RFC 2136,		U 1		
				Dynamic Updates in				
		Internetworking		the Domain Name	Service Access and		Supporting Network	Domain Name
Information Transfer	Network	(Router)		System, April 1997.	Delivery	Service Transport	Services	System (DNS)
		,		IETF RFC 1995,	,	'		, , ,
				Incremental Zone				
		Internetworking		Transfer in DNS,	Service Access and		Supporting Network	Domain Name
Information Transfer	Network	(Router)		August 1996.	Delivery	Service Transport	Services	System (DNS)
		()		IETF RFC 1996, A				(= 1.10)
				Mechanism for				
				Prompt Notification of				
				Zone Changes (DNS				
		Internetworking		NOTIFY), August	Service Access and		Supporting Network	Domain Name
Information Transfer	Network			1996.	Delivery	Service Transport	Services	System (DNS)
mormation transfer	INELWOIK	(Router)		IETF RFC 2535, DNS	Delivery	Service Transport	Services	System (DNS)
		l		Security Extensions,				
		Internetworking		March 1999.	Service Access and		Supporting Network	Domain Name
Information Transfer	Network	(Router)			Delivery	Service Transport	Services	System (DNS)
				IETF RFC 1886, DNS				
				Extensions to Support				
		Internetworking		IPv6, December	Service Access and		Supporting Network	Domain Name
Information Transfer	Network	(Router)		1995.	Delivery	Service Transport	Services	System (DNS)
		Internetworking			Service Access and		Supporting Network	Domain Name
Information Transfer	Network	(Router)		IETF RFC 2845, Secre	Delivery	Service Transport	Services	System (DNS)
				IETF Standard 7/RFC				
				793, Transmission				
				Control Protocol,				
		Internetworking		September 1981.	Service Access and			Transport Control
Information Transfer	Network	(Router)			Delivery	Service Transport	Service Transport	Protocol (TCP)
				IETF Standard 7/RFC				
				793, Transmission				
				Control Protocol,				
				September 1981. In				
				addition, PUSH flag				
				and the NAGLE				
				Algorithm, as defined				
				in IETF Standard 3,				
				Host Requirements.				
		Internetworking			Service Access and			Transport Control
Information Transfer	Network	(Router)			Delivery	Service Transport	Service Transport	Protocol (TCP)
	2			IETF Standard 5/RFC		- seeme and a seeme		
				791/RFC 950/RFC				
				919/RFC 922/RFC				
				792/RFC 1112,				
				Internet Protocol,				
		Internetworking		'	Contino Access and			
Information Transfer	Notwork	Internetworking		September 1981.	Service Access and	Contino Transport	Contino Transport	Internet Dretecal (ID)
Information Transfer	INELWOIK	(Router)			Delivery	Service Transport	Service Transport	Internet Protocol (IP)

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				IETF Standard				
				33/RFC 1350, The				
				TFTP Protocol				
				(Revision 2), July				
		Internetworking		1992, to be used for	Service Access and			
Information Transfer	Network	(Router)		initialization only.	Delivery	Service Transport	Service Transport	Internet Protocol (IP)
				IETF Standard 6/RFC				
				768, User Datagram				
		Internetworking		Protocol, 28 August	Service Access and			
Information Transfer	Network	(Router)		1980.	Delivery	Service Transport	Service Transport	Internet Protocol (IP)
				IETF Standard 8/RFC				
				854/RFC 855,				
		Internetworking		TELNET Protocol,	Service Access and			
Information Transfer	Network	(Router)		May 1983.	Delivery	Service Transport	Service Transport	Internet Protocol (IP)
				IETF RFC 3152,				
				Delegation of				
	Material	Internetworking		IP6.ARPA, August	Service Access and	O	O i T	lata was t Duata and (ID)
Information Transfer	Network	(Router)		2001.	Delivery	Service Transport	Service Transport	Internet Protocol (IP)
				IETF RFC 3315,				
				Dynamic Host				
				Configuration Protocol				
		lata anatura akira a		for IPv6 (DHCPv6),	0			
Information Transfer	Maturada	Internetworking		July 2003.	Service Access and	Comiles Transport	Comitos Trononout	Internet Protocol (IP)
miornation transfer	Network	(Router)		IETF RFC 1812,	Delivery	Service Transport	Service Transport	internet Protocol (IP)
				Requirements for IP				
		Internetworking		Version 4 Routers, 22	Service Access and			Internet Protocol
Information Transfer	Network	(Router)		June 1995.	Delivery	Service Transport	Service Transport	Routing (IP)
IIIOIIIalioii Italisiei	INGLWOIK	(Nouter)		IETF Standard	Delivery	Service Transport	Service Transport	Routing (IF)
				15/RFC 1157, Simple				
				Network Management				
				Protocol (SNMP),				Simple Network
	Network and Systems	Data Communications		May 1990.	Service Access and		Supporting Network	Management Protocol
Information Transfer	Management	Management		Way 1000.	Delivery	Service Transport	Services	(SNMP)
momation transfer	Managomont	Managomont		IETF RFC 2571. An	Donvory	Corvice Transport	COLVICOS	(Ortivir)
				Architecture for				
				Describing SNMP				
				Management				Simple Network
	Network and Systems	Data Communications		Frameworks, April	Service Access and		Supporting Network	Management Protocol
Information Transfer	Management	Management		1999.	Delivery	Service Transport	Services	(SNMP)
				IETF RFC 2572,	,			(- /
				Message Processing				
				and Dispatching for				
				the Simple Network				
				Management Protocol				
				(SNMP), April 1999.				Simple Network
	Network and Systems	Data Communications		,,,,,	Service Access and		Supporting Network	Management Protocol
Information Transfer	Management	Management			Delivery	Service Transport	Services	(SNMP)
	, ,	j		IETF RFC 2573,		,		Simple Network
	Network and Systems	Data Communications		SNMP Applications,	Service Access and		Supporting Network	Management Protocol
Information Transfer	Management	Management		April 1999.	Delivery	Service Transport	Services	(SNMP)

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
Information Transfer	Network and Systems Management	Data Communications Management		IETF RFC 2574, User- based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3), April 1999.		Service Transport	Supporting Network Services	Simple Network Management Protocol (SNMP)
Information Transfer		Data Communications Management		IETF RFC 2575, View based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP), April 1999.		Service Transport	Supporting Network Services	Simple Network Management Protocol (SNMP)
Information Transfer		Data Communications Management		IETF RFC 2011, SNMPv2 Management Information Base for the Internet Protocol, using SMIv2, November 1996.	Service Access and Delivery	Service Transport	Supporting Network Services	Simple Network Management Protocol (SNMP)
Information Transfer	Network and Systems Management	Data Communications Management		IETF RFC 2012, SNMPv2 Management Information Base for the Transmission Control Protocol (TCP), using SMIv2, November 1996.	Service Access and Delivery	Service Transport	Supporting Network Services	Simple Network Management Protocol (SNMP)
Information Transfer	Network and Systems Management	Data Communications Management		IETF RFC 2013, SNMPv2 Management Information Base for the User Datagram Protocol (UDP) using SMIv2, November 1996.	Service Access and Delivery	Service Transport	Supporting Network Services	Simple Network Management Protocol (SNMP)
Information Transfer	Network and Systems Management	Data Communications Management		IETF RFC 2605, Direc		Service Transport	Supporting Network Services	Directory Services (LDAP / X.500 / DEN)
Information Transfer	Management	Data Communications Management		IETF RFC 1611, DNS Server MIB Extensions, May 1994. IETF RFC 1612, DNS Resolver MIB	Service Access and Delivery	Service Transport	Supporting Network Services	Domain Name System (DNS)
Information Transfer	Network and Systems Management	Data Communications Management		Extensions, May 1994.	Service Access and Delivery	Service Transport	Supporting Network Services	Domain Name System (DNS)

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
		Alea		IETF RFC 1657,		Category	Category	
				Definitions of				
				Management Objects				
				for the Fourth Version				
				of the Border				
				Gateway Protocol				
				(BGP-4) using SMIv2,				
	Network and Systems	Data Communications		July 1994.	Service Access and		Supporting Network	Border Gateway
Information Transfer	Management	Management		,	Delivery	Service Transport	Services	Protocol (BGP)
	Ŭ	Ŭ		IETF RFC 2515,	,	'		,
				Definitions of				
				Managed Objects for				
	Network and Systems	Data Communications		ATM Management,	Service Platform and	Hardware /	Wide Area Network	Asynchronous
Information Transfer	Management	Management		February 1999.	Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
		_		IETF Standard				,
				16/RFC 1155/RFC				
				1212, Structure of				
				Management				
	Network and Systems	Data Communications		Information, May	Service Platform and			
Information Transfer	Management	Management		1990.	Infrastructure	Network Operations	Network Management	
				IETF Standard				
				17/RFC 1213,				
				Management				
		Data Communications		Information Base,	Service Platform and			
Information Transfer	Management	Management		March 1991.	Infrastructure	Network Operations	Network Management	
				IETF RFC 2790, Host				
	Network and Systems	Data Communications		Resources MIB,	Service Platform and			
Information Transfer	Management	Management		March 2000.	Infrastructure	Network Operations	Network Management	
				IETF Standard				
				50/RFC 1643,				
				Definitions of				
				Managed Objects for				
				the Ethernet-like				
		Data Communications		Interface Types, July	Service Platform and			
Information Transfer	Management	Management		1994.	Infrastructure	Network Operations	Network Management	
				IETF Standard				
				59/RFC 2819,				
				Remote Network				
				Monitoring				
				Management				
	,	Data Communications		Information Base,	Service Platform and			
Information Transfer	Management	Management		May 2000.	Infrastructure	Network Operations	Network Management	
				IETF RFC 1850,				
				Open Shortest Path				
				First (OSPF) Version				
				2 Management				
				Information Base,				
	,	Data Communications		November 1995.	Service Platform and			
Information Transfer	Management	Management			Infrastructure	Network Operations	Network Management	

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
		Alea		IETF RFC 1471,		Category	Category	
				Definitions of				
				Managed Objects for				
				the Link Control				
				Protocol of the Point-				
	Network and Systems	Data Communications		to-Point Protocol,	Service Platform and			
Information Transfer	Management	Management		June 1993.	Infrastructure	Network Operations	Network Management	
		J		IETF RFC 1472,				
				Definitions of				
				Managed Objects for				
				the Security Protocol				
				of the Point-to-Point				
	Network and Systems	Data Communications		Protocol, June 1993.	Service Platform and			
Information Transfer	Management	Management			Infrastructure	Network Operations	Network Management	
				IETF RFC 1473,				
				Definitions of				
				Managed Objects for				
				the IP Network				
				Control Protocol of				
	,	Data Communications		the Point-to-Point	Service Platform and			
Information Transfer	Management	Management		Protocol, June 1993.	Infrastructure	Network Operations	Network Management	
				IETF RFC 1474,				
				Definitions of				
				Managed Objects for				
				the Bridge Network				
	National and Occidence	D-4- Oiti		Control Protocol of	Ormitae Dietferme en d			
lata and a time. The section	Network and Systems			the Point-to-Point	Service Platform and	National Oceanities	National Management	
Information Transfer	Management	Management		Protocol, June 1993. IETF RFC 2006,	Infrastructure	Network Operations	Network Management	
				Definitions of				
				Managed Objects for				
				IP Mobility Support				
	Network and Systems	Data Communications		using SMIv2, October	Service Platform and			
Information Transfer	· · · · · · · · · · · · · · · · · · ·	Management		1996.	Infrastructure	Network Operations	Network Management	
IIIOIIIalioii Italisiei	Management	Management		IETF RFC 2021,	illiastructure	Network Operations	Network Management	
				Remote Network				
				Monitoring				
				Management				
				Information Base				
				Version 2 using				
	Network and Systems	Data Communications		SMIv2, January 1997.	Service Platform and			
Information Transfer	Management	Management		,,,,	Infrastructure	Network Operations	Network Management	
				IETF RFC 2788,				
				Network Services				
	Network and Systems	Data Communications		Monitoring MIB,	Service Platform and			
Information Transfer	Management	Management		March 2000.	Infrastructure	Network Operations	Network Management	
	<u> </u>			IETF RFC 2789, Mail			1	
	Network and Systems	Data Communications		Monitoring MIB,	Service Platform and			
Information Transfer	,	Management		March 2000.	Infrastructure	Network Operations	Network Management	

DISR IT Category	DISR Service Area	DISR Service Sub-	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service	FEA Service Sub-	FEA Standard Area
		Area		A-TA		Category	Category	
				ATM Forum, af-phy-				
				0015.000, ATM				
				Physical Medium				
				Dependent Interface				
				for 155 Mbps over	0 . D		1001 0 11	
		Asynchronous		Twisted Pair Cable,	Service Platform and	Hardware /	Wide Area Network	Asynchronous
Information Transfer	Subnetworks	Transfer Mode		September 1994.	Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
				ATM Forum, af-phy-				
				0016.000, DS1				
		A		Physical Layer	O - m d Dl - H - m d	11	Mida Araa Nataraala	A
Info To for	0	Asynchronous		Specification,	Service Platform and	Hardware /	Wide Area Network	Asynchronous
Information Transfer	Subnetworks	Transfer Mode		September 1994.	Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
				ATM Forum, af-phy-				
				0054.000, DS3				
				Physical Layer				
				Interface	0 ' 5' '		NAC 1 A N	
lafa T T	0	Asynchronous		Specification, January		Hardware /	Wide Area Network	Asynchronous
Information Transfer	Subnetworks	Transfer Mode		1996.	Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
				ATM Forum, af-phy-				
				0054.000, DS3				
				Physical Layer				
		A		Interface	O - m d Dl - H - m d	11	Mida Araa Nataraala	A
lafa T T	0	Asynchronous		Specification, January		Hardware /	Wide Area Network	Asynchronous
Information Transfer	Subnetworks	Transfer Mode		1996.	Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
				ATM Forum, af-phy-				
				0064.000, E1				
		A a , , , a a la ma m a , , a		Physical Interface	Service Platform and	Handware /	Mide Area Network	A a
Information Transfer	Cubaahuada	Asynchronous		Specification,		Hardware /	Wide Area Network	Asynchronous
Information Transfer	Subnetworks	Transfer Mode		September 1996.	Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
				ATM Forum, af-phy-				
				0043.000, A Cell-				
				based Transmission				
				Convergence				
		A		Sublayer for Clear	O	11	NAC de Ause Nistras de	A
Information Transfer	Cubaahuada	Asynchronous Transfer Mode		Channel Interfaces,	Service Platform and	Hardware /	Wide Area Network	Asynchronous
information transfer	Subnetworks	Transier Wode		November 1995.	Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
				ATM Forum, af-phy-				
				0086.000, Inverse				
				Multiplexing for ATM				
		A		(IMA) Specification	O	11	NAC de Ause Nistras de	A
Information Torac	Culamatura	Asynchronous		Version 1.0, July	Service Platform and	Hardware /	Wide Area Network	Asynchronous
Information Transfer	Subnetworks	Transfer Mode		1997.	Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
				ATM Forum, af-sig-				
				0061.000, ATM UNI				
				Signaling				
		A as un alaman - · · -		Specification, Version	Comine District	Llordinor- /	\\/\;\da \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	Λ ο , , , ο ο b ν ο ιο - · · -
		Asynchronous		4.0, July 1996.	Service Platform and	Hardware /	Wide Area Network	Asynchronous
Information Transfer	Subnetworks	Transfer Mode			Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)

DISR IT Category	DISR Service Area	DISR Service Sub-	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service	FEA Service Sub-	FEA Standard Area
		Area				Category	Category	
				ATM Forum, af-ilmi-				
				0065.000, Integrated				
				Local Management				
				Interface (ILMI)				
				Specification, Version				
		Asynchronous		4.0, September 1996.	Service Platform and	Hardware /	Wide Area Network	Asynchronous
Information Transfer	Subnetworks	Transfer Mode			Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
				ATM Forum, af-vtoa-				
				0078.000, Circuit				
				Emulation Service				
				Interoperability				
				Specification, Version				
		Asynchronous		2.0, January 1997.	Service Platform and	Hardware /	Wide Area Network	Asynchronous
Information Transfer	Subnetworks	Transfer Mode			Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
				ITU-T I.363.1, B-ISDN			(**************************************	
				ATM Adaptation				
				Layer Specification:				
				Type 1 ATM				
				Adaptation Layer				
		Asynchronous		(AAL1), August 1996.	Service Platform and	Hardware /	Wide Area Network	Asynchronous
Information Transfer	Subnetworks	Transfer Mode		(AAL1), August 1990.	Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
illioilliation Hansiel	Subiletworks	Transier would		ITU-T I.363.5, B-ISDN		iiiiasiiuciuie	(VAIV)	Transier Mode (ATM)
				ATM Adaptation				
				Layer Specification:				
				Type 5 ATM				
		A a a b		Adaptation Layer	Comica Diattarna and	Handware /	Mide Area Network	A a , , , a a b , r a , r a ,
Information Transfer	Culturativa	Asynchronous Transfer Mode		(AALS), August 1996.		Hardware /	Wide Area Network	Asynchronous
Information Transfer	Subnetworks	Transier wode		АТМ Ганина об нана:	Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
				ATM Forum, af-pnni-				
				0055.000, Private				
				Network to Network				
				Interface (PNNI)				
				Specification, Version	0 1 51 1	,		
		Asynchronous		1.0, March 1996.		Hardware /	Wide Area Network	Asynchronous
Information Transfer	Subnetworks	Transfer Mode			Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
				ATM Forum, af-pnni-				
				0066.000, PNNI				
				Specification, Version				
				1.0 Addendum (Soft				
		1		PVC MIB), September		l		
		Asynchronous		1996.		Hardware /	Wide Area Network	Asynchronous
Information Transfer	Subnetworks	Transfer Mode	1		Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
				DoD ATM Addressing				
		Asynchronous		Plan, 17 April 1998.	Service Platform and	Hardware /	Wide Area Network	Asynchronous
Information Transfer	Subnetworks	Transfer Mode		<u> </u>	Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				ATM Forum, af-aic-		<u> </u>		
				0178.000, ATM-				
				Multiprotocol Label Switching (MPLS)				
				Network Interworking				
		Asynchronous		Version 1.0, August	Service Platform and	Hardware /	Wide Area Network	Asynchronous
Information Transfer	Subnetworks	Transfer Mode		2001.	Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
				ATM Forum, af-tm-			, ,	, ,
				0121.000, Traffic				
				Management				
		A		Specification Version	O-mi Di	Handres of	Mid-An-Alatonal	A
Information Transfer	Cubnotworks	Asynchronous Transfer Mode		4.1, March 1999.	Service Platform and	Hardware / Infrastructure	Wide Area Network (WAN)	Asynchronous Transfer Mode (ATM)
miornation transfer	Subhetworks	Transfer Mode		ATM Forum, af-sig-	Infrastructure	ininastructure	(VVAIN)	Transier Mode (ATM)
				0076.000, Addendum				
				to UNI Signalling V4.0				
				for ABR parameter				
				negotiation, January				
		Asynchronous		1997.	Service Platform and	Hardware /	Wide Area Network	Asynchronous
Information Transfer	Subnetworks	Transfer Mode			Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
				ATM Forum, af-mpoa-				
				0114.000, Multi- Protocol Over ATM				
		Asynchronous		Version 1.1, May	Service Platform and	Hardware /	Wide Area Network	Asynchronous
Information Transfer	Subnetworks	Transfer Mode		1999.	Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
				ATM Forum, af-vtoa-			/	,
				0113.000, ATM				
				Trunking Using AAL2				
				for Narrowband				
		A		Services, February	O-mi Di	Handrian /	Mid-An-Alatonal	A
Information Transfer	Subnetworks	Asynchronous Transfer Mode		1999.	Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network (WAN)	Asynchronous Transfer Mode (ATM)
Inionnation mansier	Subiletworks	Transier Mode		ATM Forum, af-phy-	illiastructure	IIIIIastructure	(VVAIN)	Transier Mode (ATM)
				0086.001, Inverse				
				Multiplexing for ATM				
				(IMA) Specification				
		Asynchronous		Version 1.1, March	Service Platform and	Hardware /	Wide Area Network	Asynchronous
Information Transfer	Subnetworks	Transfer Mode		1999.	Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
				ATM Forum, af-saa-				
				0124.000, Gateway				
		Asynchronous		for H.323 Media Transport Over ATM,	Service Platform and	Hardware /	Wide Area Network	Asynchronous
Information Transfer	Subnetworks	Transfer Mode		July 1999.	Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
momunion manatel	Capilotworks	Transier Wood		ATM Forum, af-vtoa-	madiadiad	astraotaro	(**/ ((*)	Transfer Mode (ATM)
				0119.000, Low Speed				
				Circuit Emulation				
		Asynchronous		Service (LSCES),	Service Platform and	Hardware /	Wide Area Network	Asynchronous
Information Transfer	Subnetworks	Transfer Mode		May 1999.	Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)

DISR IT Category	DISR Service Area	DISR Service Sub-	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service	FEA Service Sub-	FEA Standard Area
		Area		-		Category	Category	
				ATM Forum, af-lane-				
				0112.000, LAN				
				Emulation Over ATM				
				Version 2 – LNNI				
		Asynchronous		Specification,	Service Platform and	Hardware /	Wide Area Network	Asynchronous
Information Transfer	Subnetworks	Transfer Mode		February 1999.	Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
				ATM Forum, af-ra-				
				0123.000, PNNI				
				Addendum for				
				Mobility Extensions,				
		Asynchronous		Version 1.0, May		Hardware /	Wide Area Network	Asynchronous
Information Transfer	Subnetworks	Transfer Mode		1999.	Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
				ATM Forum, af-sec-				
				0096.000, ATM				
				Security Framework				
				Specification Version				
		Asynchronous		1.0, February 1998.		Hardware /	Wide Area Network	Asynchronous
Information Transfer	Subnetworks	Transfer Mode			Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
				TIA/EIA/IS-787,				
				Common ATM				
				Satellite Interface				
				Interoperability	0 1 51 1	,		
		Asynchronous		Specification (CASI),		Hardware /	Wide Area Network	Asynchronous
Information Transfer	Subnetworks	Transfer Mode		July 1999.	Infrastructure	Infrastructure	(WAN)	Transfer Mode (ATM)
				MIL-STD-188-220C,				
				Interoperability Standard for Digital				
				Message Transfer				
		Combat Net Radio		Device (DMTD) Subsystems, 22 May	Service Platform and	Hardware /	Radio	
Information Transfer	Subpotworks	Networking		2002.	Infrastructure	Infrastructure	Communications	
inionnation mansier	Subherworks	INCIMOIKING	I	2002.	mmastructure	iiiiasiiuciuie	Communications	

DISR IT Category	DISR Service Area	DISR Service Sub-	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service	FEA Service Sub-	FEA Standard Area
		Area		100/150 0000 0 0000		Category	Category	
				ISO/IEC 8802-3:2000				
				(IEEE Std. 802.3,				
				2000 Edition),				
				Information				
				technology,				
				Telecommunications				
				and information				
				exchange between				
				systems - Local and				
				metropolitan area				
				networks – Specific				
				requirements – Part				
				3: Carrier sense				
				multiple access with				
				collision detection				
				(CSMA/CD) access				
				method and physical				
				layer specifications,				
				Clauses 36, 37 and				
				38 for fiber and				
				Clause 40 for				
				Category 5 copper.	Service Platform and	Hardware /	Local Area Network	
nformation Transfer	Subnetworks	Gigabit Ethernet		3. 7	Infrastructure	Infrastructure	(LAN)	Ethernet
				ANSI T1.619-1992			(=	
				(R1999), Multi-Level				
				Precedence and				
				Preemption (MLPP)				
				Service, ISDN				
				Supplementary				
				Service Description,				Integrated Services
		Integrated Services		1992 (Reaffirmed	Service Platform and	Hardware /	Network Devices /	Digital Network
nformation Transfer	Subnetworks	Digital Network		1999).	Infrastructure	Infrastructure	Standards	(ISDN)
mormation manarer	Oubrictworks	Digital Network		ANSI T1.619a-1994	minastractare	imastractare	Ctaridards	(IODIT)
				(R1999), Supplement,				Integrated Services
		Integrated Services		1994 (Reaffirmed	Service Platform and	Hardware /	Network Devices /	Digital Network
nformation Transfer	Subnetworks	Digital Network		1999).	Infrastructure	Infrastructure	Standards	(ISDN)
mormation manager	Oubrietworks	Digital Network		ANSI T1. 111- 2001,	iiiiasiiuciuie	illiastructure	Gtaridards	(IODIV)
				Signaling System No.				Integrated Services
		Integrated Services		7, Message Transfer	Service Platform and	Hardware /	Network Devices /	Digital Network
nformation Transfer	Subnetworks	Digital Network		Part, 2001.	Infrastructure	Infrastructure	Standards	(ISDN)
IIIOIIIIalioii IIaliolel	CONTIGEMOLY?	DIGITAL INCLINUIN	+	ANSI T1.112-2001,	iiiii asii uciule	mmasmuclure	Statiualus	(ווטטוו)
				· · · · · · · · · · · · · · · · · · ·				
				Telecommunications				
				- Signaling System				
				Number 7 (SS7) –				
				Signaling Connection	0 . D	l., , ,		Integrated Services
		Integrated Services		Control Part (SCCP),		Hardware /	Network Devices /	Digital Network
nformation Transfer	Subnetworks	Digital Network		2001.	Infrastructure	Infrastructure	Standards	(ISDN)

DISR IT Category	DISR Service Area	DISR Service Sub-	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service	FEA Service Sub-	FEA Standard Area
		Area		-		Category	Category	
				IETF Standard				
				41/RFC 894,				
				Standard for the				
				Transmission of IP				
				Datagrams Over				
		Local Area Network		Ethernet Networks,	Service Access and			Local Area Network
Information Transfer	Subnetworks	Access		April 1984.	Delivery	Service Transport	Service Transport	Access
				IETF Standard	,	,	•	
				37/RFC 826, An				
				Ethernet Address				
		Local Area Network		Resolution Protocol.	Service Access and			Local Area Network
Information Transfer	Subnetworks	Access		November 1982.	Delivery	Service Transport	Service Transport	Access
				ISO/IEC 8802-	,	,	•	
				11:1999, (ISO/IEC)				
				(IEEE Std 802.11 -				
		Local Area Network		1999) Information	Service Access and			Local Area Network
Information Transfer	Subnetworks	Access		Technology –	Delivery	Service Transport	Service Transport	Access
				Telecommunications	,	,	•	
				and information				
				exchange between				
				systems – Local and				
				metropolitan area				
				networks - Specific				
				requirements - Part				
				11: Wireless LAN				
				Medium Access				
				Control (MAC) and				
				Physical Layer (PHY)				
				Specifications.				
		Local Area Network		-1	Service Access and			Local Area Network
Information Transfer	Subnetworks	Access			Delivery	Service Transport	Service Transport	Access

DISR IT Category	DISR Service Area	DISR Service Sub-	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service	FEA Service Sub-	FEA Standard Area
		Area				Category	Category	
				IEEE 802.11a-1999,				
				Supplement to				
				Information				
				technology –				
				Telecommunications				
				and information				
				exchange between				
				systems - Local and				
				metropolitan area				
				networks – Specific				
				requirements – Part				
				11: Wireless LAN				
				Medium Access				
				Control (MAC) and				
				Physical Layer (PHY)				
				Specifications: High				
				Speed Physical Layer				
				(PHY) in the 5 GHz				
				Band.				
		Local Area Network			Service Access and			Local Area Network
Information Transfer	Subnetworks	Access			Delivery	Service Transport	Service Transport	Access
				IEEE 802.11b-1999,				
				Supplement to				
				Information				
				technology –				
				Telecommunications				
				and information				
				exchange between				
				systems – Local and				
				metropolitan area				
				networks - Specific				
				requirements – Part				
				11: Wireless LAN				
				Medium Access				
				Control (MAC) and				
				Physical Layer (PHY)				
				Specifications: Higher				
				Speed Physical Layer				
				(PHY) Extension in				
				the 2.4 GHz band.				
					Ormitae A.			Land Anna Maria
lafa maratian T	Out a store !	Local Area Network			Service Access and	Orandra Ta	Ounded To 1	Local Area Network
Information Transfer	Subnetworks	Access		IETE DEC 0404	Delivery	Service Transport	Service Transport	Access
				IETF RFC 2464,				
				Transmission of IPv6				
				Packets over Ethernet				
		Local Area Network		Networks, December	Service Access and			Local Area Network
Information Transfer	Subnetworks	Access		1998.	Delivery	Service Transport	Service Transport	Access

DISR IT Category	DISR Service Area	DISR Service Sub-	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service	FEA Service Sub-	FEA Standard Area
		Area		100/150 0000 0 0000		Category	Category	
				ISO/IEC 8802-3:2000				
				(IEEE Std. 802.3,				
				2000 Edition),				
				Information				
				technology,				
				Telecommunications				
				and information				
				exchange between				
				systems - Local and				
				metropolitan area				
				networks – Specific				
				requirements - Part				
				3: Carrier sense				
				multiple access with				
				collision detection				
				(CSMA/CD) access				
				method and physical				
				layer specifications,				
				Clauses 21-30 for				
				100BaseT and Clause				
				14 for 10BaseT.				
		Local Area Network			Service Platform and	Hardware /	Local Area Network	
nformation Transfer	Subnetworks	Access			Infrastructure	Infrastructure	(LAN)	Ethernet
				ITU-R M.1457-1,			,	
				Detailed				
				Specifications of the				
				Radio Interfaces of				
				IMT-2000, February	Service Platform and	Hardware /	Radio	
nformation Transfer	Subnetworks	Mobile Cellular		2001.	Infrastructure	Infrastructure	Communications	
- Individual Translation	Cubilotticitic			IETF RFC 1332, PPP	min dott dottal o	dott.dotd.ro		
				Internet Protocol				
				Control Protocol				
				(IPCP), May 1992.	Service Access and			
nformation Transfer	Subnetworks	Point-to-Point		(11 O1), Way 1332.	Delivery	Service Transport	Service Transport	Point-to-Point
mormation manager	Oublietworks	i dint-to-i dint		IETF Standard	Delivery	Dervice Transport	Octvice transport	1 OIIIL-LO-1 OIIIL
				51/RFC 1661/RFC				
				1662, Point-to-Point				
				Protocol (PPP), July	Service Access and			
nformation Transfer	Subnetworks	Point-to-Point		` '. '	Delivery	Service Transport	Service Transport	Point-to-Point
IIIOIIIIalioii ITalisiei	Subfletworks	FOITIL-IO-FOITIL		1994. IETF RFC 1989, PPP	Delivery	Service Transport	Service Transport	FUIIII-IU-FUIIII
				Link Quality	Contino Access on 1			
nformation Transfer	Cubnotuode	Doint to Doint		Monitoring (LQM), 16	Service Access and	Conside Transport	Contino Transport	Doint to Doint
nformation Transfer	Subnetworks	Point-to-Point		August 1996.	Delivery	Service Transport	Service Transport	Point-to-Point
				IETF RFC 1994, PPP				
				Challenge Handshake				
				Authentication				
				Protocol (CHAP),				
				August 1996.	Service Access and			
nformation Transfer	Subnetworks	Point-to-Point			Delivery	Service Transport	Service Transport	Point-to-Point

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				IETF RFC 1570, PPP		3	3 . 3	
				Link Control Protocol				
				(LCP) Extensions,				
				January 1994.	Service Access and			
Information Transfer	Subnetworks	Point-to-Point			Delivery	Service Transport	Service Transport	Point-to-Point
				IETF RFC 2472, IP				
				Version 6 over PPP,	Service Access and			
Information Transfer	Subnetworks	Point-to-Point		December 1998.	Delivery	Service Transport	Service Transport	Point-to-Point
				EIA/TIA-232-F,				
				Interface Between				
				Data Terminal				
				Equipment and Data				
				Circuit Terminating				
				Equipment Employing				
				Serial Binary Data				
				Interchange, October				
1				1997.	Service Access and			
Information Transfer	Subnetworks	Point-to-Point			Delivery	Service Transport	Service Transport	Point-to-Point
1				EIA/TIA-530-A, High				
				Speed 25-Position				
				Interface for Data				
				Terminal Equipment				
				and Data Circuit				
				Terminating				
				Equipment, Including				
				Alternative 26-				
				Position Connector,				
				December 1998. (This	5			
				calls out TIA/EIA-422-				
				B and -423-B).				
				,	Service Access and			
Information Transfer	Subnetworks	Point-to-Point			Delivery	Service Transport	Service Transport	Point-to-Point
				IETF RFC 1990, The				
				PPP Multilink				
				Protocol, August	Service Access and			
Information Transfer	Subnetworks	Point-to-Point		1996.	Delivery	Service Transport	Service Transport	Point-to-Point
				IETF RFC 3241,		·	·	
				Robust Header				
				Compression (ROHC)				
				over PPP, April 2002.	Service Access and			
Information Transfer	Subnetworks	Point-to-Point		''	Delivery	Service Transport	Service Transport	Point-to-Point
				IETF RFC 2472, IP	,	1		
				Version 6 over PPP,	Service Access and			
Information Transfer	Subnetworks	Point-to-Point		December 1998.	Delivery	Service Transport	Service Transport	Point-to-Point
	-			IETF RFC 3241,	,		2. 2/2.2	
				Robust Header				
				Compression (ROHC)				
				over PPP, April 2002.	Service Access and			
Information Transfer	la	Point-to-Point	1	, , =====	Delivery	Service Transport	Service Transport	Point-to-Point

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				ANSI T1.204 -1997,		J. 7		
				OAM&P – Lower				
				Layer Protocols for				
				TMN Interfaces				
				Between Operations				
				Systems and Network				
	Telecommunications			Elements, 1997.	Service Platform and			
Information Transfer	Management				Infrastructure	Network Operations	Network Management	
				ANSI T1.208 -1997,				
				OAM&P – Upper				
				Layer Protocols for				
				TMN Interfaces				
				Between Operations				
				Systems and Network				
	Telecommunications			Elements, 1997.	Service Platform and			
Information Transfer	Management			Liomonto, 1007.	Infrastructure	Network Operations	Network Management	
Information Transfer	Management			ITU-T M.3400, TMN	iiiiasiiuotuie	Network Operations	Network Management	
				Management				
	Talaaammuusiaatiana				Service Platform and			
	Telecommunications			Functions, February		N		
Information Transfer	Management			2000.	Infrastructure	Network Operations	Network Management	
				MIL-STD-188-181B,				
				Interoperability				
				Standard for Single				
				Access 5-kHz and 25-				
				kHz UHF Satellite				
				Communications				
				Channels, 20 March				
				1999, with Notice of				
				Change 1, 16 October				
		Military Satellite		2001.	Service Platform and	Hardware /	Satellite	Military Satellite
Information Transfer	Transmission Media	Communications		2001.	Infrastructure	Infrastructure	Communications	Communications
IIIIOIIIIalioii ITalisiei	Transmission wedia	Communications		MIL-STD-188-182A,	iiiiasiiuciule	iiiiasiiuciure	Communications	Communications
				Interoperability				
				Standard for 5-kHz				
				UHF DAMA Terminal				
				Waveform, 31 March				
				1997, with Notice of				
				Change 1, 9				
				September 1998;				
				Notice of Change 2,				
				22 January 1999; and				
				Notice of Change 3, 4				
		Military Satellite		June 1999.	Service Platform and	Hardware /	Satellite	Military Satellite
Information Transfer	Transmission Madia			Julie 1999.				,
Information Transfer	Transmission Media	Communications			Infrastructure	Infrastructure	Communications	Communications

DISR IT Category	DISR Service Area	DISR Service Sub-	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service	FEA Service Sub-	FEA Standard Area
		Area				Category	Category	
				MIL-STD-188-183A,				
				Interoperability				
				Standard for 25-kHz				
				TDMA/DAMA				
				Terminal Waveform				
				(Including 5-kHz and				
				25-kHz Slave				
				Channels), 20 March				
				1998; with Notice of				
				Change 1, 9				
				September 1998; and				
				Notice of Change 2, 4				
		Military Satellite		June 1999.	Service Platform and	Hardware /	Satellite	Military Satellite
Information Transfer	Transmission Media	Communications		Guilo 1000.	Infrastructure	Infrastructure	Communications	Communications
Internation manere	Transmission would	Communications		MIL-STD-188-184,	madradard	minaoti dotaro	Communications	Communications
				Interoperability and				
				Performance				
				Standard for the Data				
				Control Waveform, 20				
				August 1993, with				
		Military Catallita		Notice of Change 1, 9		Lloudinous /	Satellite	Military Catallita
	T	Military Satellite		September 1998.	Service Platform and	Hardware /		Military Satellite
Information Transfer	Transmission Media	Communications		OTD 400 405	Infrastructure	Infrastructure	Communications	Communications
				MIL-STD-188-185,				
				DoD Interface				
				Standard,				
				Interoperability of				
				UHF MILSATCOM				
				DAMA Control				
				System, 29 May				
				1996, with Notice of				
				Change 1, 1				
				December 1997; and				
		Military Satellite		Notice of Change 2, 9	Service Platform and	Hardware /	Satellite	Military Satellite
Information Transfer	Transmission Media	Communications		September 1998.	Infrastructure	Infrastructure	Communications	Communications
				MIL-STD-188-164A,				
				Interoperability of				
				SHF Satellite				
				Communications				
		Military Satellite		Earth Terminals, 15	Service Platform and	Hardware /	Satellite	Military Satellite
Information Transfer	Transmission Media	Communications		April 2002.	Infrastructure	Infrastructure	Communications	Communications
				MIL-STD-188-165A,				
				Interoperability of				
				SHF Satellite				
				Communications PSK				
				Modems (FDMA				
		Military Satellite		Operation), 15 April	Service Platform and	Hardware /	Satellite	Military Satellite
Information Transfer	Transmission Madia	· · · · · · · · · · · · · · · · · · ·						-
niormation Fransfer	Transmission Media	Communications		2002.	Infrastructure	Infrastructure	Communications	Communications

DISR IT Category	DISR Service Area	DISR Service Sub-	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service	FEA Service Sub-	FEA Standard Area
		Area				Category	Category	
				MIL-STD-188-168,				
				Interoperability				
				Standard for SHF				
				Satellite				
				Communications				
				Baseband Equipment,				
		Military Satellite		3 October 2002.	Service Platform and	Hardware /	Satellite	Military Satellite
Information Transfer	Transmission Media	Communications		0 0010001 2002.	Infrastructure	Infrastructure	Communications	Communications
THOMAGNATION TRANSPORT	Tranomicolon Weda	Communications		MIL-STD-1582D, EHF		iiii doli dolaro	Communications	Communications
1				LDR Uplinks and				
1				Downlinks, 30				
I				September 1996; with				
I								
I				Notice of Change 1,				
Ì				14 February 1997;				
				and Notice of Change				
		Military Satellite		2, 17 February 1999.		Hardware /	Satellite	Military Satellite
Information Transfer	Transmission Media	Communications			Infrastructure	Infrastructure	Communications	Communications
I				MIL-STD-188-136A,				
				EHF MDR Uplinks				
				and Downlinks, 8				
				June 1998; with				
				Notice of Change 1, 1				
				July 1999, and Notice				
		Military Satellite		of Change 2, 30	Service Platform and	Hardware /	Satellite	Military Satellite
Information Transfer	Transmission Media	Communications		October 2000.	Infrastructure	Infrastructure	Communications	Communications
	Transmission media			MIL-STD-188-182B,	i i i doli dotaro	doi.doidic		
				Interoperability and				
				Performance				
				Standard for UHF				
		NATIO 0 4 1174		SATCOM DAMA	0 1 01 1		0 1 113	NATE: 0 (10)
		Military Satellite		Orderwire Messages	Service Platform and	Hardware /	Satellite	Military Satellite
Information Transfer	Transmission Media	Communications		and Protocols.	Infrastructure	Infrastructure	Communications	Communications
				MIL-STD-188-183B,				
				Interoperability and				
				Performance				
				Standard for Multiple				
				Accessing 5-kHz and				
		Military Satellite		25-kHz UHF	Service Platform and	Hardware /	Satellite	Military Satellite
Information Transfer	Transmission Media	Communications		SATCOM Channels.	Infrastructure	Infrastructure	Communications	Communications
				MIL-STD-188-184A,				
				Interoperability and				
				Performance				
				Standard for the Data				
		Military Satellite		Control Waveform.	Service Platform and	Hardware /	Satellite	Military Satellite
Information Transfer	Transmission Madia	Communications		Contion wavelonin.				Communications
miormation transfer	Transmission Media	Communications	I	1	Infrastructure	Infrastructure	Communications	Communications

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	•	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				MIL-STD-188-166,			<u> </u>	
				Interface Standard,				
				Interoperability and				
				Performance				
				Standard for SHF				
		Military Satellite		SATCOM Link	Service Platform and	Hardware /	Satellite	Military Satellite
Information Transfer	Transmission Media	Communications		Control.	Infrastructure	Infrastructure	Communications	Communications
				MIL-STD-188-167,				
				Interface Standard,				
				Message Format for				
		Military Satellite		SHF SATCOM Link	Service Platform and	Hardware /	Satellite	Military Satellite
Information Transfer	Transmission Media	Communications		Control.	Infrastructure	Infrastructure	Communications	Communications
				MIL-STD-188-170,				
				Interoperability and				
				Performance				
				Standard for SHF				
				Satellite				
				Communications Anti-				
				Jamming Modems				
				(This modem uses				
				`				
				spread spectrum				
				techniques to protect SHF SATCOM user				
				communications and				
				control links against				
		A 4777		enemy jamming).	0 : 01 /		0 1 10	N. 1111
		Military Satellite			Service Platform and	Hardware /	Satellite	Military Satellite
Information Transfer	Transmission Media	Communications		N. OTD 400 4404	Infrastructure	Infrastructure	Communications	Communications
				MIL-STD-188-140A,				
				Equipment Technical				
				Design Standards for				
				Common Long				
				Haul/Tactical Radio				
				Communications in				
				the LF Band and				
				Lower Frequency				
		Radio		Bands, 1 May 1990.	Service Platform and	Hardware /	Radio	
Information Transfer	Transmission Media	Communications			Infrastructure	Infrastructure	Communications	
				MIL-STD-188-141B,				
				Interoperability and				
				Performance				
				Standards for Medium	1			
				and High Frequency				
				Radio Systems, 1				
		Radio		March 1999.	Service Platform and	Hardware /	Radio	
Information Transfer	Transmission Media	Communications			Infrastructure	Infrastructure	Communications	1

DISR IT Category	DISR Service Area	DISR Service Sub-	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service	FEA Service Sub-	FEA Standard Area
		Area				Category	Category	
				MIL-STD-188-148A,				
				Interoperability				
				Standard for Anti-Jam				
				Communications in				
				the HF Band (2-30				
				Mhz), 18 March 1992.				
		Radio			Service Platform and	Hardware /	Radio	
Information Transfer	Transmission Media	Communications			Infrastructure	Infrastructure	Communications	
				MIL-STD-188-110B,				
				Interoperability and				
				Performance				
				Standards for Data				
		Radio		Modems, 27 April	Service Platform and	Hardware /	Radio	
Information Transfer	Transmission Media	Communications		2000.	Infrastructure	Infrastructure	Communications	
				MIL-STD-188-242,				
				Tactical Single				
				Channel (VHF) Radio				
		Radio		Equipment, 20 June	Service Platform and	Hardware /	Radio	
Information Transfer	Transmission Media	Communications		1985.	Infrastructure	Infrastructure	Communications	
				MIL-STD-188-243,				
				Tactical Single				
				Channel (UHF) Radio				
				Communications, 15				
		Radio		March 1989.	Service Platform and	Hardware /	Radio	
Information Transfer	Transmission Media	Communications			Infrastructure	Infrastructure	Communications	
				STANAG 4246,				
				Edition 2, HAVE				
				QUICK UHF Secure				
				and Jam-Resistant				
				Communications				
				Equipment, 17 June				
				1987; with				
		Radio		Amendment 3,	Service Platform and	Hardware /	Radio	
Information Transfer	Transmission Media	Communications		August 1991.	Infrastructure	Infrastructure	Communications	
oao	Transmission media	00		MIL-STD-188-145,	acti dotaro	dotdota.ro		
				Digital Line-of-Sight				
				(LOS) Microwave				
				Radio Equipment, 7				
				May 1987; with Notice				
		Radio		of Change 1, 28 July	Service Platform and	Hardware /	Radio	
Information Transfer	Transmission Media	Communications		1992.	Infrastructure	Infrastructure	Communications	
miormation manaier	Transmission Media	Communications		(S) STANAG 4175,	iiiiasiiuciuie	iiiiasiiuciuic	Communications	
				Edition 3, Technical				
				Characteristics of the				
				Multifunctional				
				Information				
		Padio		Distribution System	Convice Dietform and	Hardware /	Padio	
Information Transfer	Transmission Mastin	Radio		(MIDS), 6 February		Hardware /	Radio	
miormation transfer	Transmission Media	Communications		2001, (U).	Infrastructure	Infrastructure	Communications	1

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
				MIL-STD-188-241, RF			3.7	
				Interface				
				Requirements for				
				VHF Frequency				
		Radio		Hopping Tactical	Service Platform and	Hardware /	Radio	
Information Transfer	Transmission Media	Communications		Radio Systems.	Infrastructure	Infrastructure	Communications	
				CCSDS 401.0 - B-6,				
				Radio Frequency and				
				Modulation Systems -				
				Part 1: Earth Stations				
				and Spacecraft, May				
				2000, Consultative				
				Committee for Space				
		Satellite State-of-		Data Systems.				Satellite State-of-
		Health			Service Platform and	Hardware /	Satellite	Health
Information Transfer	Transmission Media	Communication			Infrastructure	Infrastructure	Communications	Communication
				ISO 11754:1994,				
				(CCSDS 101.0-B-4),				
				Space Data and				
				Information Transfer				
		Satellite State-of-		Systems – Telemetry				Satellite State-of-
		Health		Channel Coding.	Service Platform and	Hardware /	Satellite	Health
Information Transfer	Transmission Media	Communication			Infrastructure	Infrastructure	Communications	Communication
				ISO 12171:1998,				
				(CCSDS 201.0-B-2),				
				Space Data and				
				Information Transfer				
				Systems –				
		0		Telecommand –				0
		Satellite State-of-		Channel Service –	Ormitae Dietfermer en d	Llaudovana /	C-4-W4-	Satellite State-of-
Information Transfer	Transmission Madia	Health		Architectural	Service Platform and	Hardware /	Satellite	Health
Information Transfer	Transmission Media	Communication		Specification.	Infrastructure	Infrastructure	Communications	Communication
				ISO 12172:1998, (CCSDS 202.0-B-2),				
				Space Data and Information Transfer				
				Systems –				
		Satellite State-of-		Telecommand – Data				Satellite State-of-
		Health		Routing Service.	Service Platform and	Hardware /	Satellite	Health
Information Transfer	Transmission Media	Communication		Routing Service.	Infrastructure	Infrastructure	Communications	Communication
miorination Haristel	Transmission widdla	Communication		ISO 12173:1998,	mmastructule	n mastruoture	Communications	Communication
				(CCSDS 202.1-B-1),				
				Space Data and				
				Information Transfer				
				Systems –				
		Satellite State-of-		Telecommand –				Satellite State-of-
		Health		Command Operation	Service Platform and	Hardware /	Satellite	Health
	Transmission Media	Communication		Procedures.	Infrastructure	Infrastructure	Communications	Communication

DISR IT Category	DISR Service Area	DISR Service Sub- Area	DISR Standard Area	DISR Specification	FEA Service Area	FEA Service Category	FEA Service Sub- Category	FEA Standard Area
		Alea		ISO 12174:1998,		Category	Category	
				(CCSDS 203.0-B-1),				
				Space Data and				
				Information Transfer				
				Systems –				
				Telecommand – Data				
		Catallita Otata of		Management Service,				Catallita Otata af
		Satellite State-of-		Architectural	Ormita Diettema en d	Liandona /	0-4-184-	Satellite State-of-
	Topografication Mandia	Health		Specification.	Service Platform and	Hardware /	Satellite	Health
Information Transfer	Transmission Media	Communication		100 40440-4007	Infrastructure	Infrastructure	Communications	Communication
				ISO 13419:1997,				
				(CCSDS 102.0-B-4),				
				Space Data and				
		Satellite State-of-		Information Transfer				Satellite State-of-
		Health		Systems – Packet	Service Platform and	Hardware /	Satellite	Health
Information Transfer	Transmission Media	Communication		Telemetry.	Infrastructure	Infrastructure	Communications	Communication
				ISO 15396:1998				
				(CCSDS 910.4-B-1)				
				Space Data and				
				Information Transfer				
				Systems - Cross				
		Satellite State-of-		Support Reference				Satellite State-of-
		Health		Model - Space Link	Service Platform and	Hardware /	Satellite	Health
Information Transfer	Transmission Media	Communication		Extension Services.	Infrastructure	Infrastructure	Communications	Communication
				CCSDS 910.5-R-2,				
				Space Link Extension				
				– Service				
		Satellite State-of-		Management				Satellite State-of-
		Health		Specification,	Service Platform and	Hardware /	Satellite	Health
Information Transfer	Transmission Media	Communication		September 2001.	Infrastructure	Infrastructure	Communications	Communication
oao	Transmission media			CCSDS 910.7-R-1,	aou aotaro	aot. dotai o	Communications	
				Space Link Extension				
				- Service				
				Management – Space				
				Link Physical Layer				
		Satellite State-of-		Management Object				Satellite State-of-
		Health		,	Service Platform and	Hardware /	Satellite	Health
nformation Transfer	Transmission Madia			2001	Infrastructure			
Information Transfer	Transmission Media	Communication			inirastructure	Infrastructure	Communications	Communication
				CCSDS 911.1-R-2,				
				Space Link Extension				
		0-4-104- 01 1		– Return All Frames				0-4-104- 01 1 1
		Satellite State-of-		Service Specification,	0 1 51 1	l., , ,	0	Satellite State-of-
		Health		November 2000.	Service Platform and	Hardware /	Satellite	Health
nformation Transfer	Transmission Media	Communication			Infrastructure	Infrastructure	Communications	Communication
				CCSDS 911.2-R-1,				
				Space Link Extension				
				Return Virtual				
				Channel Frames				
		Satellite State-of-		Service Specification,				Satellite State-of-
		Health		November 1997.	Service Platform and	Hardware /	Satellite	Health
Information Transfer	Transmission Media	Communication			Infrastructure	Infrastructure	Communications	Communication

DISR IT Category	DISR Service Area		d Area DISR Specification	FEA Service Area	FEA Service	FEA Service Sub-	FEA Standard Area
		Area	CCSDS 912.1-R-2,		Category	Category	
			Space Link Extension				
			– Forward CLTU				
		Satellite State-of-					Satellite State-of-
			Service Specification,	O	Hambura . /	0-4-184-	Health
Information Transfer	Transmission Madia	Health	May 2000.		Hardware /	Satellite	
Information Transfer	Transmission Media	Communication	00000 010 0 0 1	Infrastructure	Infrastructure	Communications	Communication
			CCSDS 912.3-R-1,				
			Space Link Extension				
		0-4-11:4- 04-44	- Forward Packet				0-4-1114- 04-44
		Satellite State-of-	Service Specification,	O	Hambura . /	0-4-184-	Satellite State-of-
Information Transfer	Turn and a sign Markin	Health	November 1997.		Hardware /	Satellite	Health
Information Transfer	Transmission Media	Communication	ANOLT4 405 4005	Infrastructure	Infrastructure	Communications	Communication
			ANSI T1.105-1995,				
			Telecommunications				
			- Synchronous				
			Optical Network				
			(SONET) Basic				
			Description Including				
			Multiplex Structure,				
			Rates and Formats				
			(Revision and				
			Consolidation of ANSI				Synchronous Optical
		Synchronous Optical	T1.105-1991 and				Network
		Network Transmission	ANSI T1.105A-1991).		Hardware /	Wide Area Network	Transmission
Information Transfer	Transmission Media	Facilities		Infrastructure	Infrastructure	(WAN)	(SONET)
			ANSI T1.107-1995,				Synchronous Optical
		Synchronous Optical	Digital Hierarchy –				Network
		Network Transmission	Formats		Hardware /	Wide Area Network	Transmission
Information Transfer	Transmission Media	Facilities	Specifications.	Infrastructure	Infrastructure	(WAN)	(SONET)
			ANSI T1.117-1991,				
			(R1997), Digital				
			Hierarchy – Optical				
			Interface				
			Specifications (Single				Synchronous Optical
		Synchronous Optical	Mode-Short Reach),				Network
		Network Transmission	(Reaffirmed 1997).		Hardware /	Wide Area Network	Transmission
Information Transfer	Transmission Media	Facilities		Infrastructure	Infrastructure	(WAN)	(SONET)

FEA Standards to DoD Specifications

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Component Framework	Business Logic	Platform Dependent	Visual Basic - A version of the BASIC programming language from Microsoft specialized for developing Windows applications.	FEA TRM					
Component Framework	Business Logic	Platform Dependent	Visual Basic .Net (VB.Net) - A version of the BASIC programming language from Microsoft specialized for developing Windows applications that is used within Microsoft's .NET environment.	FEA TRM					
Component Framework	Business Logic	Platform Dependent	C-Sharp (C#) - An object-oriented programming language from Microsoft that is based on C++ with elements from Visual Basic and Java.	FEA TRM					
Component Framework	Business Logic	Platform Dependent	VB Script - A scripting language from Microsoft. A subset of Visual Basic, VBScript is widely used on the Web for both client processing within a Web page and server-side processing in Active Server Pages (ASPs).						
Component Framework	Business Logic	Platform Independent	Enterprise Java Beans (EJB) - A software component in Sun's J2EE platform, which provides a pure Java environment for developing and running distributed applications.	FEA TRM					
Component Framework	Business Logic	Platform Independent	applications. (C, C++ - C is a procedure programming language. C++ is an object-oriented version of C that has been widely used to develop enterprise and commercial applications.	FEA TRM					
Component Framework	Business Logic	Platform Independent	JavaScript - A scripting language that runs within a web browser.	FEA TRM					
Component Framework	Business Logic	Platform Independent	Java Servlet (JSR 53) - Java Servlets provide reusable web components that can be incorporated into portals.	FEA TRM					
Component Framework	Business Logic	Platform Independent	Java Portlet API (JSR 168) - Java Portlet API enables interoperability between Portlets and Portals by defining APIs that address the areas of aggregation, personalization, presentation and security.	FEA TRM					
Component Framework	Data Interchange	Computer Graphics		JTA 6.0	Information Processing	Data Interchange	JPEG File Interchange Format, Version 1.02, September 1, 1992, C-Cube Microsystems.	Mandatory	Yes
Component Framework	Data Interchange	Computer Graphics		JTA 6.0	Information Processing	Data Interchange	Graphics Interchange Format (GIF), Version 89a, CompuServe	Mandatory	Yes
Component Framework	Data Interchange	Computer Graphics		JTA 6.0	Information Processing	Data Interchange	Incorporated, 31 July 1990. MIL-STD-2411, Raster Product Format, 6 October 1994; with Notice of Change, Notice 1, 17 January 1995, and Notice of Change, Notice 2, 16 August 2001.	Mandatory	Yes
Component Framework	Data Interchange	Computer Graphics		JTA 6.0	Information Processing	Data Interchange		Mandatory	Yes
Component Framework	Data Interchange	Computer Graphics		JTA 6.0	Information Processing	Data Interchange	ISO/IEC 8632-1:1999, Information technology – Computer graphics – Metafile for the storage and transmission of picture description information – Part 1: Functional specification, as profiled by MIL-STD-2301A, Computer Graphics Metafile (CGM) Implementation Standard for the National Imagery Transmission Format Standard, 5 June 1998 with Notice 1, 1 March 2001.	Mandatory	Yes
Component Framework	Data Interchange	Computer Graphics		JTA 6.0	Information Processing	Data Interchange	ISO/IEC 8632-3:1999, Information technology – Computer graphics – Metafile for the storage and transmission of picture description information – Part 3: Binary encoding, as profiled by MIL-STD-2301A, Computer Graphics Metafile (CGM) Implementation Standard for the National Imagery Transmission Format Standard, 5 June 1998 with Notice 1, 1 March 2001.	Mandatory	Yes
Component Framework	Data Interchange	Computer Graphics		JTA 6.0	Information Processing	Data Interchange	ISO/IEC 8632-4:1999, Information technology – Computer graphics – Metafile for the storage and transmission of picture description information – Part 4: Clear text encoding, as profiled by MIL-STD-2301A, Computer Graphics Metafile (CGM) Implementation Standard for the National Imagery Transmission Format Standard, 5 June 1998 with Notice 1,1 March 2001.	Mandatory	Yes
Component Framework	Data Interchange	Computer Graphics		JTA 6.0	Information Processing	Data Interchange		Mandatory	Yes

FEA Standards to DoD Specifications

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Component Framework	Data Interchange	Computer Graphics		JTA 6.0	Information Processing	Data Interchange	ISO/IEC 14772-1:1998, Information technology – Computer graphics and image processing – The Virtual Reality Modeling Language (VRML) – Part 1: Functional specification and UTF-8 encoding,	Emerging	Yes
Component Framework	Data Interchange	Computer Graphics		JTA 6.0	Information Processing	Data Interchange	Multiple-image Network Graphics (MNG) Format, Version 1.0, 31 January 2001.	Emerging	Yes
Component Framework	Data Interchange	Computer Graphics		JTA 6.0	Information Processing	Data Interchange	ISO/IEC 15948:2000, Portable Network Graphics (PNG): Functional Specification Final Committee Draft (FCD).	Emerging	Yes
Component Framework	Data Interchange	Computer Graphics		JTA 6.0	Information Processing	Data Interchange	Hierarchical Data Format (HDF), Version 5, Release 1.4.2, National Center for Super Computing Applications, 4 October 2001.	Emerging	Yes
Component Framework	Data Interchange	Computer Graphics		JTA 6.0	Information Processing	Data Interchange	ISO/IEC 15444-2:2001, JPEG 2000 image coding system, July 2001.	Emerging	Yes
Component Framework	Data Interchange	Computer Graphics		JTA 6.0	Information Processing	Graphics	ANSI/ISO/IEC 9636-1,2,3,4,5,6:1991 (R1997), Information technology – Computer graphics – Interfacing (CGI) techniques for dialogues with graphics devices.	Mandatory	Yes
Component Framework	Data Interchange	Computer Graphics		JTA 6.0	Information Processing	Graphics	OpenGL Graphics System: A Specification (Version 1.2.1), 1 April 1999.	Mandatory	Yes
Component Framework	Data Interchange	Computer Graphics		JTA 6.0	Information Processing	Graphics	OpenGL Graphics System: A Specification (Version 1.3), 14 Aug 2001.	Emerging	Yes
Component Framework	Data Interchange	Computer Graphics		JTA 6.0	Human-Computer Interface	Symbology	MIL-STD-2525B, Common Warfighting Symbology, 30 January	Mandatory	Yes
Component Framework	Data Interchange	Data Exchange	Resource Description Framework (RDF) - RDF provides a lightweight ontology system to support the exchange of knowledge on the Web. It integrates a variety of web-based metadata activities including sitemaps, content ratings, stream channel definitions, search engine data collection (web crawling), digital library collections, and distributed authoring, using XML as interchange syntax. RDF is the foundation for the Semantic Web envisioned by Tim Berners-Lee - an extension of the current web in which information is given well-defined meaning, better enabling computers and people to work in cooperation. http://www.w3.org/RDF/http://www.w3.org/2001/sw/		Information Processing	Data Interchange	Resource Description Framework (RDF) Model and Syntax Specification, W3C Recommendation, 22 February 1999, REC-rdf-syntax-19990222.	Emerging	Yes
Component Framework	Data Interchange	Data Exchange	XQuery – A language used for processing and evaluating XML data. The XQuery language provides results of expressions allowing the use of evaluations to the implementation of XQuery. http://www.w3.org/XML/Query	JTA 6.0	Information Processing	Data Interchange	XQuery 1.0, An XML Query Language, W3C Working Draft, 15 November 2002.	Emerging	Yes
Component Framework	Data Interchange	Data Exchange	Simple Object Access Protocol (SOAP) – SOAP provides HTTP/XML based remote procedure call capabilities for XML Web Services. http://www.w3.org/2000/xp/Group/	JTA 6.0	Information Processing	Data Interchange	Simple Object Access Protocol (SOAP) 1.1, W3C Note, 08 May 2000.	Emerging	Yes
Component Framework	Data Interchange	Data Exchange	XMI - Enables easy interchange of metadata between modeling tools (based on the OMG UML) and metadata repositories (OMG MOF based) in distributed heterogeneous environments. XMI integrates three key industry standards: XML, UML, and MOF. The integration of these three standards into XMI marries the best of OMG and W3C metadata and modeling technologies, allowing developers of distributed systems to share object models and other metadata over the Internet. http://www.omg.org/technology/documents/formal/xmi.htm	JTA 6.0	Information Modeling, Metadata, and Information Exchange	Object Model	XML Metadata Interchange (XMI), Version 1.1, ad/99-10-22, 25 October 1999.	Emerging	Yes
Component Framework	Data Interchange	Data Exchange	XMI - Enables easy interchange of metadata between modeling tools (based on the OMG UML) and metadata repositories (OMG MOF based) in distributed heterogeneous environments. XMI integrates three key industry standards: XML, UML, and MOF. The integration of these three standards into XMI marries the best of OMG and W3C metadata and modeling technologies, allowing developers of distributed systems to share object models and other metadata over the Internet. http://www.omg.org/technology/documents/formal/xmi.htm	JTA 6.0	Information Modeling, Metadata, and Information Exchange	Object Model	XML Metadata Interchange (XMI), Version 1.1 – Appendices, ad/99-10-13, 25 October 1999.	Emerging	Yes

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Component Framework	Data Interchange	Data Exchange	Electronic Business using XML (ebXML) - A modular suite of specifications that enables enterprises to conduct business over the Internet: exchanging business messages, conducting trading relationships, communicating data in common terms and defining and registering business processes.	FEA TRM					
Component Framework	Data Interchange	Data Exchange	Web Services User Interface (WSUI) - WSUI uses a simple schema for describing a WSUI "component" that can be used in a portal to call backend SOAP and XML services. WSUI uses XSLT stylesheets to construct user-facing views to enable users to interact with the services.	FEA TRM					
Component Framework	Data Interchange	Data Exchange	Resource Description Framework (RDF) - RDF provides a lightweight ontology system to support the exchange of knowledge on the Web. It integrates a variety of web-based metadata activities including sitemaps, content ratings, stream channel definitions, search engine data collection (web crawling), digital library collections, and distributed authoring, using XML as interchange syntax. RDF is the foundation for the Semantic Web envisioned by Tim Berners-Lee - an extension of the current web in which information is given well-defined meaning, better enabling computers and people to work in cooperation. http://www.w3.org/RDF/http://www.w3.org/2001/sw/	JTA 6.0	Information Processing	Data Interchange	Resource Description Framework (RDF) Schema Specification 1.0, W3C Candidate Recommendation, 27 March 2000, CR-rdf-schema-20000327.	Emerging	Yes
Component Framework	Data Interchange	Digital Audio and Video		JTA 6.0	Information Processing	Data Interchange	ISO/IEC 11172-2:1993, Information technology – Coding of moving pictures and associated audio for digital storage media at up to about 1.5 Mbit/s – Part 2 Video. 1993.	Mandatory	Yes
Component Framework	Data Interchange	Digital Audio and Video		JTA 6.0	Information Processing	Data Interchange	ISO/IEC 13818-1:2000, Information technology – Generic coding of moving pictures and	Mandatory	Yes
Component Framework	Data Interchange	Digital Audio and Video		JTA 6.0	Information Processing	Data Interchange	associated audio information – Part 1: Systems (MPEG-2). ISO/IEC 13818-2:2000, Information technology – Generic coding of moving pictures and	Mandatory	Yes
Component Framework	Data Interchange	Digital Audio and Video		JTA 6.0	Information Processing	Data Interchange	associated audio information – Part 2: Video (MPEG-2). ISO/IEC 11172-1:1993, Information technology – Coding of moving pictures and associated audio for digital storage media at up to about 1.5 Mbits/s – Part 1: Systems, 1993; with Technical Corrigendum 1:1996, and Technical Corrigendum 2:1999.	Mandatory	Yes
Component Framework	Data Interchange	Digital Audio and Video		JTA 6.0	Information Processing	Data Interchange	ISO/IEC 13818-3:1998, Information technology – Generic coding of moving pictures and associated audio information, Part 3: Audio: 1998.	Mandatory	Yes
Component Framework	Data Interchange	Digital Audio and Video		JTA 6.0	Information Processing	Data Interchange	ISO/IEC 11172-3:1993, Information technology – Coding of moving pictures and associated audio for digital storage media at up to about 1.5 Mbit/s – Part 3 (Audio Layer-3 only); with Technical Corrigendum 1:1996.	Mandatory	Yes
Component Framework	Data Interchange	Digital Audio and Video		BEA TV	Information Processing	Data Interchange	ANSI S4.40-1992/AES3:1992, AES (Audio Engineering Society) Recommended Practice for Digital Audio Engineering – Serial transmission format for two-channel linearly represented digital audio data, 1992 (reaffirmed and amended 1997).	Mandatory	Yes
Component Framework	Data Interchange	Digital Audio and Video		JTA 6.0	Information Processing	Data Interchange	Motion Imagery Standards Profile, Version 2.0, 29 November 2001.	Mandatory	Yes
Component Framework	Data Interchange	Digital Audio and Video		JTA 6.0	Information Processing	Data Interchange	ITU-R TF.460-5, Standard-frequency and time-signal emissions, 1997.	Mandatory	Yes
Component Framework	Data Interchange	Digital Media		JTA 6.0	Information Processing	Data Interchange	ISO 9660:1988, Information processing – Volume and file structure of CD-ROM for information	Mandatory	Yes
Component Framework	Data Interchange	Digital Media		JTA 6.0	Information Processing	Data Interchange	interchange. ISMA Specification 1.0:2001, Internet Streaming Media Alliance.	Emerging	Yes
Component Framework	Data Interchange	Document Object Model		JTA 6.0	Information Processing	Data Interchange	Document Object Model (DOM) Level 1 Specification, Version 1.0, W3C Recommendation,	Emerging	Yes
Component Framework	Data Interchange	Identification Friend or Foe		JTA 6.0	Information Transfer	Identification Friend or Foe	October 1998. Aeronautical Telecommunications: Appendix 10 to the Convention on International Civil Aviation, Volume IV (Surveillance Radar and Collision Avoidance Systems), Edition 1, International Civil Aviation Organization (ICAO): Montreal, 1995, with Supplements (31 May 1996 and 10 November 1997).	Mandatory	Yes

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Component Framework	Data Interchange	Identification Friend or Foe		JTA 6.0	Information Transfer	Identification Friend or Foe	DOT FAA 1010.51A, US National Aviation Standard for the Mark X (SIF) Air Traffic Control Radar Beacon System (ATCRBS) Characteristics, 8 March 1971.	Mandatory	Yes
Component Framework	Data Interchange	Identification Friend or Foe		JTA 6.0	Information Transfer	Identification Friend or Foe	DoD AIMS 97-1000, Performance/Design and Qualification Requirements Technical Standard For The ATCRBS/IFF/MARK XII Electronic Identification System and Military Mode S, 18 March 1998.	Mandatory	Yes
Component Framework	Data Interchange	Identification Friend or Foe		JTA 6.0	Information Transfer	Identification Friend or Foe	DoD AIMS 97-900, Performance/Design And Qualification Requirements Mode 4 Input/Output Data, 18 March 1998.	Mandatory	Yes
Component Framework	Data Interchange	Identification Friend or Foe		JTA 6.0	Information Transfer	Identification Friend or Foe	DoD AIMS 03-1000 Mark XIIA, Performance/Design and Qualification Requirements Technical Standard for the ATCRBS/IFF/MARK XIIA Electronic Identification System and Military Mode S.	Emerging	Yes
Component Framework	Data Interchange	Internationalization		JTA 6.0	Information Processing	Data Interchange	FIPS PUB 10-4, Countries, Dependencies, Areas of Special Sovereignty, and Their Principal Administrative Divisions, April 1995 as modified by Change Notice No. 1, 1 December 1998; Change Notice No. 3, 1 May 1999; Change Notice 2, 1 March 1999; Change Notice No. 3, 1 May 1999; Change Notice No. 4, 25 February 2000; Change Notice No. 5, 10 August 2000; Change Notice No. 6, 28 January 2001, and Change Notice No. 7, 10 January 2002.	Mandatory	Yes
Component Framework	Data Interchange	Internationalization		JTA 6.0	Information Processing	Data Interchange	ANSI X3.30-1997: Representation of Date for Information Interchange.	Mandatory	Yes
Component Framework	Data Interchange	Internationalization		JTA 6.0	Information Processing	Data Interchange	FM 92-X Ext. GRIB WMO No. 306, Manual on Codes, International Codes, Volume 1.2 (Annex II to WMO Technical Regulations) Parts B and C.	Mandatory	Yes
Component Framework	Data Interchange	Internationalization		JTA 6.0	Information Processing	Data Interchange	FM 94-X Ext. BUFR WMO No. 306, Manual on Codes, International Codes, Volume 1.2 (Annex II to WMO Technical Regulations) Parts B and C.	Mandatory	Yes
Component Framework	Data Interchange	Internationalization		JTA 6.0	Information Processing	Data Interchange	C321, Calendaring and Scheduling API (XCS), Open Group Technical Standard, ISBN 1-85912-076-8, April 1995.	Emerging	Yes
Component Framework	Data Interchange	Internationalization		JTA 6.0	Information Processing	Internationalization	ISO/IEC 8859-1:1998, Information technology – 8-bit single- byte coded graphic character sets – Part 1: Latin alphabet No. 1.	Mandatory	Yes
Component Framework	Data Interchange	Internationalization		JTA 6.0	Information Processing	Internationalization	ISO/IEC 10646-1:2000, Information technology – Universal Multiple-Octet Coded Character Set (UCS) – Part 1: Architecture and Basic Multilingual Plane.	Mandatory	Yes
Component Framework	Data Interchange	Spatial Imagery		JTA 6.0	Information Processing	Data Interchange	MIL-STD-2401, Department of Defense Standard Practice, World Geodetic System (WGS), 11 January 1994, as implemented by NIMA TR 8350.2, Department of Defense World Geodetic System 1984: Its Definitions and Relationships with Local Geodetic Systems, Third Edition, 4 July 1997, as modified by Amendment 1, 3 January 2000.	Mandatory	Yes
Component Framework	Data Interchange	Spatial Imagery		JTA 6.0	Information Processing	Data Interchange	MIL-STD-2500B, National Imagery Transmission Format (Version 2.1) for the National Imagery Transmission Format Standard, 22 August 1997 with Notice 1, 2 October 1998, and Notice 2, 1 March 2001.	Mandatory	Yes
Component Framework	Data Interchange	Spatial Imagery		JTA 6.0	Information Processing	Data Interchange	MIL-STD-188-196, Bi-Level Image Compression for the National Imagery Transmission Format Standard, 18 June 1993 with Notice 1, 27 June 1996.	Mandatory	Yes
Component Framework	Data Interchange	Spatial Imagery		JTA 6.0	Information Processing	Data Interchange	MIL-STD-188-199, Vector Quantization Decompression for the National Imagery Transmission Format Standard, 27 June 1994 with Notice 1, 27 June 1996.	Mandatory	Yes
Component Framework	Data Interchange	Spatial Imagery		JTA 6.0	Information Processing	Data Interchange	The Compendium of Controlled Extensions (CE) for the National Imagery Transmission Format (NITF), Version 2.1, 16 November 2000.	Mandatory	Yes
Component Framework	Data Interchange	Spatial Imagery		JTA 6.0	Information Processing	Data Interchange	ITU-R TF.1010-1, Relativistic effects in a coordinate time system in the vicinity of the Earth, October 1997.	Mandatory	Yes
Component Framework	Data Interchange	Spatial Imagery		JTA 6.0	Information Processing	Data Interchange	ISO/IEC 18023, Information technology – Computer graphics and image processing – Synthetic Environment Data Representation and Interchange Specification (SEDRIS), 5 December 2001.	Emerging	Yes

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Component Framework	Data Interchange	Spatial Imagery		JTA 6.0	Information Processing	Data Interchange	ISO/IEC 18025: Information technology – Computer graphics and image processing – Environmental Data Coding Specification (EDCS), 26 December 2002.	Emerging	Yes
Component Framework	Data Interchange	Spatial Imagery		JTA 6.0	Information Processing	Data Interchange		Emerging	Yes
Component Framework	Data Interchange	Spatial Imagery		JTA 6.0	Information Processing	Data Interchange	ISO/IEC 12087-5:1998, Information technology – Computer graphics and image processing – Image Processing and Interchange (IPI) Functional specification – Part 5: Basic Image Interchange Format (BIIF), 1 December 1998, with Technical Corrigendum 1:2001.	Emerging	Yes
Component Framework	Data Interchange	Tactical Information Exchange		JTA 6.0	Information Modeling, Metadata, and Information Exchange	Tactical Information Exchange	MIL-STD-6016B, Tactical Digital Information Link (TADIL) J Message Standard, 1 August 2002. [SUNSET] This standard will be deleted with the delivery of efficient XML-based message services from GES.	Mandatory	Yes
Component Framework	Data Interchange	Tactical Information Exchange		JTA 6.0	Information Modeling, Metadata, and Information Exchange	Tactical Information Exchange	STANAG 5516, Edition 2, Tactical Data Exchange – LINK 16, Ratified 10 November 1998. [SUNSET] This standard will be deleted with the delivery of efficient XML-based message services from GES.	Mandatory	Yes
Component Framework	Data Interchange	Tactical Information Exchange		JTA 6.0	Information Modeling, Metadata, and Information Exchange	Tactical Information Exchange	Variable Message Format (VMF), Technical Interface Design Plan (Test Edition) Reissue 5, 18 January 2002. [SUNSET] This standard will be deleted with the delivery of efficient XML-based message services from GES.	Mandatory	Yes
Component Framework	Data Interchange	Tactical Information Exchange		JTA 6.0	Information Modeling, Metadata, and Information Exchange	Tactical Information Exchange		Mandatory	Yes
Component Framework	Data Interchange	Tactical Information Exchange		JTA 6.0	Information Modeling, Metadata, and Information Exchange	Tactical Information Exchange	MIL-STD-6040, United States Message Text Format (USMTF), 31 March 2002.	Mandatory	Yes
Component Framework	Data Interchange	Tactical Information Exchange		JTA 6.0	Information Modeling, Metadata, and Information Exchange	Tactical Information Exchange	ANSI/IEEE 754-1985, IEEE Standard for Binary Floating-Point Arithmetic, March 21, 1985.	Mandatory	Yes
Component Framework	Data Interchange	Tactical Information Exchange		JTA 6.0	Information Modeling, Metadata, and Information Exchange	Tactical Information Exchange	IBS Technical Interface Design Plan (TIDP).	Emerging	Yes
Component Framework	Data Interchange	Voice Encoder		JTA 6.0	Information Processing	Data Interchange	Analog-to-Digital Conversion of Voice by 1200 Bit/Second Mixed Excitation Linear Prediction (MELP).	Emerging	Yes
Component Framework	Data Interchange	Voice Encoder		JTA 6.0	Information Processing	Data Interchange	MIL-STD-3005, Analog-to-Digital Conversion of Voice by 2400 Bit/Second Mixed Excitation Linear Prediction (MELP), 20 December 1999.	Mandatory	Yes
Component Framework Component Framework	Data Interchange Data Interchange	XML Digital Signature XML Forms		JTA 6.0 JTA 6.0	Information Processing Information Processing	Data Interchange Data Interchange	XML-Signature Syntax and Processing, W3C Recommendation, 12 February 2002. XForms 1.0, W3C Working Draft, 12 November 2002.	Emerging Emerging	Yes
Component Framework	Data Interchange	XML Forms		JTA 6.0	Information Processing	Data Interchange	XForms Requirements, W3C Working Draft, 4 April 2001.	Emerging	Yes
Component Framework	Data Interchange	XML Path Language		JTA 6.0	Information Processing	Data Interchange	XML Path Language (XPATH), Version 1.0, W3C Recommendation, 16 November 1999.	Emerging	Yes
Component Framework	Data Management	Database Connectivity	Java Database Connectivity (JDBC) - JDBC provides access to virtually any tabular data source from the Java programming language. It provides cross-DBMS connectivity to a wide range of SQL databases, and other tabular data sources, such as spreadsheets or flat files.	FEA TRM					
Component Framework	Data Management	Database Connectivity	Open Database Connectivity (ODBC) - A database programming interface from Microsoft that provides a common language for Windows applications to access databases on a network. ODBC is made up of the function calls programmers write into their applications and the ODBC drivers themselves.						
Component Framework	Data Management	Database Connectivity	Active Data Objects (ADO) - A programming interface from Microsoft that is designed as "the" Microsoft standard for data access. First used with Internet Information Server, ADO is a set of COM objects that provides an interface to OLE DB. The three primary objects are Connection, Command and Recordset.	FEA TRM					

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Component Framework	Data Management	Database Connectivity	Active Data Objects .Net (ADO.Net) - ADO.Net is the data-access component of the Microsoft's .NET Framework. It provides an extensive set of classes that facilitate efficient access to data from a large variety of sources, enable sophisticated manipulation and sorting of data.						
Component Framework	Data Management	Database Connectivity	Object Linking and Embedding/Database (OLE/DB) – A Microsoft low-level API designed to provide connections to different data sources. OLE/DB allowed connectivity to ODBC-based SQL providers/sources as well as other formats such as text and comma-delimited.	FEA TRM					
Component Framework	Data Management	Database Connectivity	Data Access Objects (DAO) – DAO is the Microsoft library for accessing Microsoft Jet engine data source such as Microsoft Office-based applications. DAO is replaced by ADO and ADO.Net.	FEA TRM					
Component Framework	Data Management	Database Connectivity	DB2 Connector – An IBM connectivity API to access DB2 sources.	FEA TRM					
Component Framework	Data Management	Reporting and Analysis	eXtensible Business Reporting Language (XBRL) - Extensible Business Reporting Language (XBRL is ar open specification which uses XML-based data tags to describe financial statements for both public and private companies.						
Component Framework	Data Management	Reporting and Analysis	Java Online Analytical Processing (JOLAP) - JOLAP is a Java API for the JZEE environment that supports the creation and maintenance of OLAP data and metadata, in a vendor-independent manner.	FEA TRM					
Component Framework	Data Management	Reporting and Analysis	Online Analytical Processing (OLAP) - Decision support software that allows the user to quickly analyze information that has been summarized into multidimensional views and hierarchies.	FEA TRM					
Component Framework	Data Management	Reporting and Analysis	XML for Analysis - XML for Analysis uses the Simple Object Access Protocol (SOAP) to let Web browser- based programs access back-end data sources for data analysis. The specification allows companies to build online analytical processing (OLAP) and data mining applications that work over the Web.	FEA TRM					
Component Framework	Presentation / Interface	Content Rendering	Cascading Style Sheets (CSS) - A style sheet format for HTML documents endorsed by the World Wide Web Consortium. CSS1 (Version 1.0) provides hundreds of layout settings that can be applied to all the subsequent HTML pages that are downloaded. http://www.wdvl.com/Authoring/Style/Sheets/	JTA 6.0	Information Processing	Data Interchange	Cascading Style Sheets (CSS) Level 1 (CSS1), W3C Recommendation, 17 December 1996.	Emerging	Yes
Component Framework	Presentation / Interface	Content Rendering	eXtensible HTML (XHTML) - The W3C's recommendation for the next generation of HTML leveraging XML http://www.w3.org/TR/2001/REC-xhtml11-20010531/	JTA 6.0	Information Processing	Data Interchange	XHTML™ 1.0: The Extensible HyperText Markup Language, Second Edition, A Reformulation of HTML 4 in XML 1.0, W3C Recommendation, 26 January 2000, revised 1 August 2002.	Emerging	Yes
Component Framework	Presentation / Interface	Content Rendering	Dynamic HTML (DHTML) - A collective term for a combination of new Hypertext Markup Language (HTML) tags and options, style sheets, and programming that will allow Web pages that are more animated and more responsive to user interaction than previous versions of HTML.	FEA TRM					
Component Framework	Presentation / Interface	Dynamic / Server-Side Display	Java Server Pages (JSP) - JSP is part of Sun's J2EE architecture and provide template capabilities for presenting dynamically generated Web content. JSPs are text files written in a combination of standard HTML tags, JSP tags, and Java code.						
Component Framework	Presentation / Interface	Dynamic / Server-Side Display	Active Server Pages (ASP) - A Web server technology from Microsoft that allows for the creation of dynamic, interactive sessions with the user.	FEA TRM					
Component Framework	Presentation / Interface	Dynamic / Server-Side Display	Active Server Pages .Net (ASP.Net) - ASP.NET is a set of technologies in the Microsoft .NET Framework for building Web applications and XML Web Services. ASP.NET pages execute on the server and generate markup such as HTML, WML or XML that is sent to a desktop or mobile browser.	FEA TRM					

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Component Framework	Presentation / Interface	Static Display	Hyper Text Markup Language (HTML) - The language used to create Web documents and a subset of Standard Generalized Markup Language (SGML) http://www.w3.org/MarkUp/	JTA 6.0	Information Processing	Data Interchange	HTML 4.01 Specification, W3C Recommendation, 24 December 1999.	Mandatory	Yes
Component Framework	Presentation / Interface	Static Display	Standard Generalized Markup Language (SGML)	BEA TV	Information Processing	Data Interchange	ISO 8879:1986, Information processing – Text and office systems – Standard Generalized Markup Language (SGML) with Amendment 1, 1988, Technical Corrigendum 1:1996 and Technical Corrigendum 2:1999.	Mandatory	Yes
Component Framework	Presentation / Interface	Static Display		JTA 6.0	Information Processing	User Interface	X Window System (X11R6): Protocol, The Open Group, July 1999.	Mandatory	Yes
Component Framework	Presentation / Interface	Static Display		BEA TV	Information Processing	User Interface	X Window System (X11R6): C-Language Library (Xlib), Open Group Technical Standard, December 1999.	Mandatory	Yes
Component Framework	Presentation / Interface	Static Display		BEA TV	Information Processing	User Interface	X Window System (X11R6): Toolkit, Open Group Technical Standard, December 1999.	Mandatory	Yes
Component Framework	Presentation / Interface	Static Display		BEA TV	Information Processing	User Interface	Window Management (X11R5): File Formats and Application Conventions, Open Group Technical Standard, ISBN 1-85912- 090-3, May 1995.	Mandatory	Yes
Component Framework	Presentation / Interface	Static Display		JTA 6.0	Information Processing	User Interface	Win32 APIs, as specified in the Microsoft Platform SDK.	Mandatory	Yes
Component Framework	Presentation / Interface	Wireless / Mobile / Voice	Wireless Markup Language (WML) - An XML-based protocol designed for Wireless devices.	FEA TRM					
Component Framework	Presentation / Interface	Wireless / Mobile / Voice	INTTML Mobile Profile (XHTMLMP) - XHTMLMP is designed for resource-constrained Web clients that do not support the full set of XHTML features, such as mobile phones, PDAs, pagers and set-top boxes. It extends XHTML Basic with modules, elements and attributes to provide a richer authoring language. XHTML replaces the Wireless Markup Language (WML).						
Component Framework	Presentation / Interface	Wireless / Mobile / Voice	Voice XML (VXML) - VXML is an XML vocabulary for specifying IVR (Integrated Voice Response) Systems	FEA TRM					
Component Framework	Security	Certificates / Digital Signature	Secure Sockets Layer (SSL) - An open, non- proprietary protocol for securing data communications across computer networks. SSL is sandwiched between the application protocol (such as HTTP, Telnet, FTP, and NNTP) and the connection protocol (such as TCPIP, UDP). SSL provides server authentication, message integrity, data encryption, and optional client authentication for TCP/IP connections	JTA 6.0	Information Security	Applications	Secure Sockets Layer (SSL) Protocol, Version 3.0, 18 November 1996. [SUNSET] This standard will be deleted when commercial Web servers employed by DoD and the IC community support TLS.	Mandatory	Yes
Component Framework	Security	Certificates / Digital Signature	FIPS 186 - The Digital Signature Standard (DSS) specifies a digital signature algorithm (DSA) appropriate for applications requiring a digital, rather than written, signature. The DSA authenticates the integrity of the signed data and the identity of the signatory. The DSA may also be used to prove that data was actually signed by the generator of the signature. Additional references: Draft ANSI X9.30-199x Part 1 and ISO/IEC JTC1/SC277WGZ, Project 1.27.08 Digital Signature with Appendix.	JTA 6.0	Information Security	Cryptography	FIPS PUB 186-2, Digital Signature Standard (DSS) Digital Signature Algorithm (DSA), 27 January 2000.	Mandatory	Yes
Component Framework	Security	Certificates / Digital Signature	Digital Certificate Authentication – Authentication implementation for controlling access to network and interner resources through managing user identification. An electronic document, digital certificate, is issued and used to prove identity and public key ownership over the network or internet.	JTA 6.0	Information Security	Public-Key Infrastructure	ITU-T Recommendation X.509 (2000)/ISO/IEC 9594-8:2001, Information Technology – Open Systems Interconnection – The Directory: Public Key and Attribute Certificate Frameworks, 2001, with Technical Corrigendum 1:2002, and Technical Corrigendum 2:2002.	Mandatory	Yes
Component Framework	Security	Certificates / Digital Signature	Digital Certificate Authentication – Authentication implementation for controlling access to network and interner resources through managing user identification. An electronic document, digital certificate, is issued and used to prove identity and public key ownership over the network or internet.	JTA 6.0	Information Security	Public-Key Infrastructure	IETF RFC 2459, Internet X.509 Public Key Infrastructure Certificate and CRL Profile, January 1999, as profiled by TWG-98-07.	Emerging	Yes
Component Framework	Security	Certificates / Digital Signature	Digital Certificate Authentication – Authentication implementation for controlling access to network and internet resources through managing user identificate, is issued and used to prove identity and public key ownership over the network or internet.	JTA 6.0	Information Security	Public-Key Infrastructure	TWG-98-07, DoD Certificate Policy, Version 6, 31 May 2002.	Emerging	Yes
Component Framework	Security	Certificates / Digital Signature	Digital Certificate Authentication – Authentication implementation for controlling access to network and internet resources through managing user identification. An electronic document, digital certificate, is issued and used to prove identity and public key ownership over the network or internet.	JTA 6.0	Information Security	Public-Key Infrastructure	IETF RFC 2587, Internet X.509 Public Key Infrastructure LDAPv2 Schema, June 1999.	Emerging	Yes

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Component Framework	Security	Certificates / Digital Signature	Digital Certificate Authentication – Authentication implementation for controlling access to network and interner tesources through managing user identification. An electronic document, digital certificate, is issued and used to prove identity and public key ownership over the network or internet.	JTA 6.0	Information Security	Public-Key Infrastructure	RSA Laboratories Public Key Cryptography Standard #12, v1.0: Personal Information Exchange Syntax Standard, RSA, 24 June 1999.	Emerging	Yes
Component Framework	Security	Certificates / Digital Signature	Digital Certificate Authentication – Authentication implementation for controlling access to network and interner resources through managing user identification. An electronic document, digital certificate, is issued and used to prove identity and public key ownership over the network or internet.	JTA 6.0	Information Security	Public-Key Infrastructure	RSA Laboratories Public Key Cryptography Standard (PKCS) #15, v1.1: Cryptographic Token Information Format Standard, RSA, 6 June 2000.	Emerging	Yes
Component Framework	Security	Certificates / Digital Signature	Digital Certificate Authentication – Authentication implementation for controlling access to network and internet resources through managing user identification. An electronic document, digital certificate, is issued and used to prove identity and public key ownership over the network or internet.	JTA 6.0	Information Security	Public-Key Infrastructure	IETF RFC 2315, Public Key Cryptography Standard (PKCS) #7, Cryptographic Message Syntax, Version 1.5, March 1998.	Emerging	Yes
Component Framework	Security	Certificates / Digital Signature	Digital Certificate Authentication – Authentication implementation for controlling access to network and interner tesources through managing user identification. An electronic document, digital certificate, is issued and used to prove identity and public key ownership over the network or internet.	JTA 6.0	Information Security	Public-Key Infrastructure	IETF RFC 2314, PKCS #10, Certification Request Syntax, Version 1.5, March 1998.	Emerging	Yes
Component Framework	Security	Certificates / Digital Signature	Digital Certificate Authentication – Authentication implementation for controlling access to network and internet resources through managing user identification. An electronic document, digital certificate, is issued and used to prove identity and public key ownership over the network or internet.	JTA 6.0	Information Security	Public-Key Infrastructure	RSA Laboratories Public Key Cryptography Standard (PKCS) #11, v2.10: Cryptographic Token Interface Standard, December 1999.	Emerging	Yes
Component Framework	Security	Certificates / Digital Signature	Digital Certificate Authentication — Authentication implementation for controlling access to network and interner resources through managing user identification. An electronic document, digital certificate, is issued and used to prove identity and public key ownership over the network or internet.	JTA 6.0	Information Security	Public-Key Infrastructure	IETF RFC 2437, PKCS #1: RSA Cryptography Specifications Version 2.0, October 1998.	Emerging	Yes
Component Framework	Security	Certificates / Digital Signature	Digital Certificate Authentication – Authentication implementation for controlling access to network and interner tesources through managing user identification. An electronic document, digital certificate, is issued and used to prove identity and public key ownership over the network or internet.	JTA 6.0	Information Security	Public-Key Infrastructure	FIPS PUB 140-2, Security Requirements for Cryptographic Modules, 25 May 2001.	Emerging	Yes
Component Framework	Security	Certificates / Digital Signature	Digital Certificate Authentication — Authentication implementation for controlling access to network and internet resources through managing user identification. An electronic document, digital certificate, is issued and used to prove identity and public key ownership over the network or internet.	JTA 6.0	Information Security	Public-Key Infrastructure	FIPS PUB 46-3, Data Encryption Standard, NIST, 25 October 1999.	Emerging	Yes
Component Framework	Security	Certificates / Digital Signature	Digital Certificate Authentication — Authentication implementation for controlling access to network and interner resources through managing user identification. An electronic document, digital certificate, is issued and used to prove identity and public key ownership over the network or internet.	JTA 6.0	Information Security	Public-Key Infrastructure	FIPS PUB 180-1, Secure Hash Algorithm, 17 April 1995.	Emerging	Yes
Component Framework	Security	Certificates / Digital Signature	Digital Certificate Authentication – Authentication implementation for controlling access to network and internet resources through managing user identification. An electronic document, digital certificate, is issued and used to prove identity and public key ownership over the network or internet.	JTA 6.0	Information Security	Public-Key Infrastructure	FIPS PUB 197, Advanced Encryption Standard (AES), NIST, 26 November 2001.	Emerging	Yes
Component Framework	Security	Certificates / Digital Signature	Security Assertion Markup Language (SAML) - An XML-based framework for exchanging security information expressed in the form of assertions about subjects, where a subject is an entity (either human or computer) that has an identity in some security domain. SAML is expected to play a key role in the Federal-wide E-Authentication initiative, and is supported by both the Liberty Alliance and WS-Security.	FEA TRM					
Component Framework	Security	Certificates / Digital Signature	Simple Key Management Protocol (SKIP) – A protocol developed by Sun Microsystems to handle key management across IP networks and VPNs.	FEA TRM					
Component Framework	Security	Certificates / Digital Signature	Transagement across in relevances and vervis. Digital Certificate Authentication — Authentication implementation for controlling access to network and internet resources through managing user identification. An electronic document, digital certificate, is issued and used to prove identity and public key ownership over the network or internet.	JTA 6.0	Information Security	Public-Key Infrastructure	IETF RFC 2559, Internet X.509 Public Key Infrastructure Operational Protocols: LDAPv2, April 1999.	Emerging	Yes

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Component Framework	Security	Certificates / Digital Signature		JTA 6.0	Information Security	Applications	SDN.706, X.509 Certificate and Certificate Revocation List Profiles and Certification Path Processing Rules, Revision D, 12 May 1999. [SUNSET] This standard will be deleted when GES can provide secure messaging confirmation, to include authentication, delivery and encryption.	Mandatory	Yes
Component Framework	Security	Certificates / Digital Signature		JTA 6.0	Information Security	Key Management Infrastructure	SDN.903, revision 3.2, Secure Data Network System (SDNS) Key Management Protocol (KMP), 1 August 1989.	Mandatory	Yes
Component Framework	Security	Supporting Security Services	Transport Layer Security (TLS) - Standard for the next generation SSL. TLS provides communications privacy over the Internet. The protocol allows client/server applications to communicate in a way that is designed to prevent eavesdropping, tampering, or message forgery. http://www.ietf.org/html.charters/tls-charter.html	JTA 6.0	Information Security	Applications		Mandatory	Yes
Component Framework	Security	Supporting Security Services	Web Services Security (WS-Security) - Describes enhancements to SOAP messaging to provide message integrity, message confidentiality, and single message authentication. These mechanisms can be used to accommodate a wide variety of security models and encryption technologies including X.509, Kerberos, and SAML. http://www.oasis-open.org/committees/wss/http://www.06i.bm.com/developerworks/library/ws-secure/	JTA 6.0	Information Security	Applications	ITU-T Recommendation X.509 (2000)/ISO/IEC 9594-8:2001, Information Technology – Open Systems Interconnection – The Directory: Public Key and Attribute Certificate Frameworks, 2001, with Technical Corrigendum 1:2002, and Technical Corrigendum 2:2002.	Mandatory	Yes
Component Framework	Security	Supporting Security Services	Secure Multipurpose Internet Mail Extensions (S/MIME) - Provides a consistent way to send and receive secure MIME data. Based on the Internet MIME standard, S/MIME provides cryptographic security services for electronic messaging applications: authentication, message integrity and non-repudiation of origin (using digital signatures) and data confidentiality (using encryption). S/MIME is not restricted to mail; it can be used with any transport mechanism that transports MIME data, such as HTTP. http://www.ietf.org/html.charters/smime-charter.html	JTA 6.0	information Security	Applications	IETF RFC 2632, S/MIME Version 3 Certificate Handling, June 1999.	Mandatory	Yes
Component Framework	Security	Supporting Security Services	Secure Shell (SSH) – A strong method of performing client authentication. Because it supports authentication, compression, confidentiality and integrity, SSH is used frequently on the Internet. SSH has two important components, RSA certificate exchange for authentication and Triple DES for session encryption. http://www.ietf.org/internet-drafts/draft-ietf-secsh-architecture-13.txt http://www.ietf.org/internet-drafts/draft-ietf-secsh-auth-kbdinteract-05.txt	JTA 6.0	Information Security	Applications	draft-ietf-secsh-architecture-13.txt, Secure Shell (SSH) Protoco Architecture, 23 September 2002.	i Emerging	Yes
Component Framework	Security	Supporting Security Services	Secure Multipurpose Internet Mail Extensions (S/MIME) - Provides a consistent way to send and receive secure MIME data. Based on the Internet MIME standard, S/MIME provides cryptographic security services for electronic messaging applications: authentication, message integrity and non-repudiation of origin (using digital signatures) and data confidentiality (using encryption). S/MIME is not restricted to mail; it can be used with any transport mechanism that transports MIME data, such as HTTP. http://www.ietf.org/html.charters/smime-charter.html	JTA 6.0	Information Security	Applications	IETF RFC 2633, S/MIME Version 3 Message Specification, June 1999.	Mandatory	Yes

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	Formal
Component Framework	Security	Supporting Security Services	Secure Multipurpose Internet Mail Extensions ((S/MIME) - Provides a consistent way to send and receive secure MIME data. Based on the Internet MIME standard, S/MIME provides cryptographic security services for electronic messaging applications: authentication, message integrity and non-repudiation of origin (using digital signatures) and data confidentiality (using encryption). S/MIME is not restricted to mail; it can be used with any transport mechanism that transports MIME data, such as HTTP. http://www.ietf.org/html.charters/smime-charter.html	JTA 6.0	Information Security	Applications	IETF RFC 2634, Enhanced Security Services for S/MIME, June 1999.	Mandatory	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Applications	Fortezza Interface Control Document, Revision P1.5, 22 December 1994. [SUNSET] This standard will be deleted when GIG Enterprise Services (GES) can provide secure messaging confirmation, to include authentication, delivery and encryption.	Mandatory	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Applications	ACP-120, Allied Communications Publication 120, Common Security Protocol (CSP), Rev A, 7 May 1998, ISUNSET] This standard will be deleted when GES can provide secure messaging confirmation, to include authentication, delivery and encryption.	Mandatory	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Applications		Mandatory	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Applications	ITU-T Recommendation X.481 (2000)/ISO/IEC 15816-12:2000, Information Technology – Security Techniques – Security Information Objects for Access Control. [SUNSET] This standard will be deleted when GES can provide secure messaging confirmation, to include authentication, delivery and encryption.	Mandatory	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Applications	SDN.801, Access Control Concept and Mechanisms, Revision C, 12 May 1999. [SUNSET] This standard will be deleted when GES can provide secure messaging confirmation, to include authentication, delivery and encryption.	-	Yes
		Supporting Security Services		JTA 6.0	Information Security	Applications	[SUNSET] This standard will be deleted when new standards are selected as part of the development of the IA component of the GIG architecture.	Mandatory	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Applications	FIPS PUB 112, Password Usage, 30 May 1985. [SUNSET] This standard will be deleted when new standards are selected as part of the development of the IA component of the GIG architecture.	Mandatory	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Applications	IETF RFC 1510, The Kerberos Network Authentication Service, Version 5, 10 September 1993.	Mandatory	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Applications	IETF RFC 2289, A One-Time Password System, February 1998.	Emerging	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Applications	IETF RFC 2138, Remote Authentication Dial In User Service	Emerging	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Applications	(RADIUS), April 1997. OMG document formal/01-03-08, Security Services	Emerging	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Applications	Specification, Version 1.7, March 2001. Controlled Access Protection Profile, Version 1.d, NSA, 8	Emerging	Yes
Component Framework	Security	Supporting Security Services		NCOW 1.0	Information Security	Applications	October 1999. Labeled Security Protection Profile, Version 1.b, NSA, 8	Emerging	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Cryptography	October 1999. SKIPJACK and KEA Algorithm Specification, Version 2.0, NIST, 29 May 1998. [SUNSET] This standard will be deleted when AES becomes the mandated standard.	Mandatory	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Cryptography	FIPS PUB 46-3, Data Encryption Standard, 25 October 1999. [SUNSET] This standard will be	Mandatory	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Cryptography	deleted when AES becomes the mandated standard. FIPS PUB 180-1, Secure Hash Standard, 17 April 1995.	Mandatory	Yes

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Cryptography	IETF RFC 2104, HMAC: Keyed-Hashing for Message Authentication, February 1997.	Mandatory	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Cryptography	Fortezza Application Implementers' Guide, MD4002101-1.52, 5 March 1996. [SUNSET] This standard will be deleted when GES can provide secure messaging confirmation, to include authentication, delivery and encryption.	Mandatory	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Cryptography	Fortezza Cryptologic Interface Programmers' Guide (CIPG), Revision 1.52, 30 January 1996. [SUNSET] This standard will be deleted when GES can provide secure messaging confirmation, to include authentication, delivery and encryption.	Mandatory	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Cryptography		Mandatory	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Cryptography	Modules, 25 May 2001. FIPS PUB 197, Advanced Encryption Standard (AES), 26 November 2001.	Emerging	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Cryptography	IETF RFC 2743, Generic Security Service Application Program E Interface, Version 2, 1 January 2000.	Emerging	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Cryptography		Emerging	Yes
Component Framework	Security	Supporting Security Services		NCOW 1.0	Information Security	Cryptography	Mobile Cryptography E		No
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Processing	Environment Management	ANSI INCITS 358-2002, BioAPI Specification, Version 1.1, Feb 13, 2002.		Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Processing	Environment Management	(CBEFF), January 3, 2001.	Mandatory	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Intrusion Detection Systems	Intrusion Detection System Analyzer Protection Profile, Draft 3, EIATF, 15 September 2000.	Emerging	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Intrusion Detection Systems		Emerging	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Intrusion Detection Systems		Emerging	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Intrusion Detection Systems		Emerging	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Link Layer		Emerging	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Network Layer		Mandatory	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Network Layer	IETF RFC 2404, The Use of HMAC-SHA-1-96 within ESP and AH, November 1998.	Mandatory	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Network Layer	IETF RFC 2406, IP Encapsulating Security Payload (ESP), November 1998.	Mandatory	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Network Layer	IETF RFC 2407, The Internet IP Security Domain of Interpretation for ISAKMP, November 1998.	Mandatory	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Network Layer		Mandatory	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Network Layer		Mandatory	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Network Layer		Emerging	Yes
Component Framework	Security	Supporting Security Services		NCOW 1.0	Information Security	Network Layer	High Assurance IP Interoperability	Emerging	No
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Physical Layer	IEEE 802.10-1998, IEEE Standards for Local and Metropolitan Area Networks: Standard for Interoperable LAN/MAN Security (SILS), 17 September 1998.	Emerging	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Physical Layer	IEEE 802.10a-1999, IEEE Standards for Local and Metropolitan Area Networks: Supplement to Standard for Interoperable LAN/MAN Security (SILS) – Security Architecture Framework (Clause 1), 22 March 1999.	Emerging	Yes
Component Framework	Security	Supporting Security Services		JTA 6.0	Information Security	Physical Layer		Emerging	Yes
Service Access and Delivery	Access Channels	Collaboration Communications	Electronic Mail (E-mail) – E-mail (Electronic mail) is the exchange of computer-generated and stored messages by telecommunication. An E-mail can be created manually via messaging applications or dynamically, programmatically such as automated response systems.	FEA TRM					
Service Access and Delivery	Access Channels	Collaboration Communications	Facsimile (Fax) – A fax is the digitized image of text and/or pictures, represented as a series of dots (bit map). Faxes are sent and received through telecommunication channels such as telephone or	FEA TRM					
DoD_EA_TRM_Appen	idix A v0.4.xls	L	internet.	Page 81 of 110	<u> </u>	1		3:37	PM9/13/20

	LA colvide category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Service Access and Delivery A	access Channels	Collaboration Communications	Kiosk - A kiosk is a small physical structure (often including a computer and a display screen) that displays information for people walking by. Kiosks are common in public buildings. Kiosks are also used at trade shows and professional conferences.	FEA TRM					
Service Access and Delivery A	Access Channels	Collaboration Communications		JTA 6.0	Information Transfer	Electronic Mail	ACP 123 Edition A. Common Messaging Strategy and Procedures, 15 August 1997. [SUNSET] This standard will be deleted when GIG Enterprise Services (GES) can provide equivalent messaging strategy and procedures.	Mandatory	Yes
Service Access and Delivery A	Access Channels	Collaboration Communications		JTA 6.0	Information Transfer	Electronic Mail	ACP 123 Edition A, U.S. Supplement No. 1, Common Messaging Strategy and Procedures, 26 June 2001. [SUNSET] This standard will be deleted when GES can provide equivalent messaging strategy and procedures.	Mandatory	Yes
Service Access and Delivery A	Access Channels	Collaboration Communications		JTA 6.0	Information Transfer	Electronic Mail	IETF RFC 2822, Internet Message Format, April 2001.	Mandatory	Yes
•		Collaboration Communications		JTA 6.0	Information Transfer	Electronic Mail	IETF RFC 2646, The Text/Plain Format Parameter, August 1999.	Emerging	Yes
Service Access and Delivery A	Access Channels	Collaboration Communications		JTA 6.0	Information Transfer	Electronic Mail	IETF RFC 3023, XML Media Types, January 2001.	Emerging	Yes
Service Access and Delivery A	Access Channels	Other Electronic Channels	Uniform Resource Locator (URL) – URL is the global address of documents and other resources on the World Wide Web. The first part of the address indicates what protocol to use (i.e. "http://"), and the second part specifies the IP address or the domain name where the resource is located (i.e. "www.firstgov.gov").	JTA 6.0	Information Transfer	Web Services	IETF RFC 1738, Uniform Resource Locators (URL), 20 December 1994.	Mandatory	Yes
Service Access and Delivery A	access Channels	Other Electronic Channels	Uniform Resource Locator (URL) – URL is the global address of documents and other resources on the World Wide Web. The first part of the address indicates what protocol to use (i.e. "http://"), and the second part specifies the IP address or the domain name where the resource is located (i.e. "www.firstgov.gov").		Information Transfer	Web Services	IETF RFC 2396, Uniform Resource Identifiers (URI), Generic Syntax, August 1998.	Mandatory	Yes
Service Access and Delivery A	Access Channels	Other Electronic Channels	System to System - System to System involves at least two computers that exchange data or interact with each other independent of human intervention or participation.	FEA TRM					
Service Access and Delivery A	Access Channels	Other Electronic Channels	Web Service - Web services (sometimes called application services) are services (usually including some combination of programming and data, but possibly including human resources as well) that are made available from a business's web server for Web users or other Web-connected programs.	FEA TRM					
		Web Browser	. 0	FEA TRM					
		Wireless / PDA		FEA TRM FEA TRM					+
	Delivery Channels Delivery Channels	Extranet Internet		FEA TRM					+
		Intranet		FEA TRM					-
		Peer to Peer (P2P)		NCOW 1.0	Information Processing	Data Interchange	Heterogeneity Aware P2P	Emerging	No
Service Access and Delivery D	Delivery Channels	Virtual Private Network (VPN)		FEA TRM	•				
Service Access and Delivery Service Access and Delivery	Service Requirements	Authentication / Single Sign-on		FEA TRM					
Service Access and Delivery	Service Requirements	(SSO) Hosting	Internal (within Agency) – The hosting of a web site or application within an Agency. The Agency is responsible for the maintenance, support and availability of the web site or application.	FEA TRM					
		Hosting	External (ISP/ASP/FirstGov) – The outsourcing of a web site or application with a managed service provider. An Internet Service Provider (ISP) provides telecommunications circuits, server co-location, and web site and application hosting. An Application Service Provider (ASP) offers software-based services for high-end business applications and specific-needs applications such as payroll, sales force automation, and human resources. FirstGov is the official managed service provider for the Federal Government.	FEA TRM					
Service Access and Delivery S	Service Requirements	Legislative / Compliance	Section 508 – Section 508 requires that Federal agencies' electronic and information technology is accessible to people with disabilities, including employees and members of the public.	FEA TRM					
Í	Service Requirements	Legislative / Compliance		FEA TRM					
Service Access and Delivery S	Service Requirements C_A_v0.4.xls	Legislative / Compliance	against unauthorized access, use, disclosure, disruption, modification or destruction.	Page 82 of 110					7 PM9/13/20

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
ervice Access and Delivery	Service Requirements	Legislative / Compliance	Privacy: Platform for Privacy Preferences (P3P) – A specification that will allow users' Web browsers to automatically understand Web sites' privacy practices Privacy policies will be embedded in the code of a Web site. Browsers will read the policy, and then, automatically provide certain information to specific sites based on the preferences set by the users. For instance, if the site is an e-commerce site, the browse will automatically provide shipping info. If the site is requesting demographic info, then the browser will know to provide it anonymously. The P3P specification was developed by the W3C P3P Syntax, Harmonization, and Protocol Working Groups, including W3C Member organizations and experts in the field of Web privacy. P3P is based on W3C specifications that have already been established, including HTTP, XML and Resource Description Framework (RDP). Privacy is policy that deals with the degree to which an individual can determine which personal information is to be shared with whom and for what purpose.	FEA TRM					
service Access and Delivery	Service Requirements	Legislative / Compliance	Privacy: Liberty Alliance – The Liberty Alliance Project is an alliance formed to deliver and support a federated network identity solution for the Internet that enables single sign- on for consumers as well as business users in an open, federated way. A federated network identity model will enable every business or user to manage their own data, and ensure that the use of critical personal information is managed and distributed by the appropriate parties, rather than a central authority. Privacy is policy that	FEA TRM					
ervice Access and Delivery	Service Transport	Hosting	deals with the degree to which an individual can determine which personal information is to be shared with whom and for what purpose.	JTA 6.0	Information Transfer	Host	IETF Standard 3 (RFC 1122 and RFC 1123), Requirements for	Mandatory	Yes
	Service Transport	Service Transport	File Transfer Protocol (FTP) - A protocol used to transfer files over a TCP/IP network (Internet, UNIX, etc.). For example, after developing the HTML pages for a Web site on a local machine, they are typically uploaded to the Web server using FTP.	JTA 6.0	Information Transfer	File Transfer	Internet Hosts, October 1989.	Mandatory	Yes
iervice Access and Delivery	Service Transport	Service Transport	Internet Protocol (IP) - This is the protocol of the Internet and has become the global standard for communications. IP accepts packets from TCP, adds its own header and delivers a "datagram" to the data link layer protocol. It may also break the packet into fragments to support the maximum transmission unit (MTU) of the network.	JTA 6.0	Information Transfer	Internet Protocol		Mandatory	Yes
ervice Access and Delivery	Service Transport	Service Transport	Transport Control Protocol (TCP) - TCP provides transport functions, which ensures that the total amount of bytes sent is received correctly at the destination.	JTA 6.0	Information Transfer	Transport Services	IETF Standard 7/RFC 793, Transmission Control Protocol, September 1981. In addition, PUSH flag and the NAGLE Algorithm, as defined in IETF Standard 3, Host Requirements.	Mandatory	Yes
ervice Access and Delivery	Service Transport	Service Transport	File Transfer Protocol (FTP) - A protocol used to transfer files over a TCP/IP network (Internet, UNIX, etc.). For example, after developing the HTML pages for a Web site on a local machine, they are typically uploaded to the Web server using FTP.	JTA 6.0	Information Security	Applications		Emerging	Yes
ervice Access and Delivery	Service Transport	Service Transport	Internet Protocol (IP) - This is the protocol of the Internet and has become the global standard for communications. IP accepts packets from TCP, adds its own header and delivers a "datagram" to the data link layer protocol. It may also break the packet into fragments to support the maximum transmission unit (MTU) of the network.	JTA 6.0	Information Transfer	Internetworking	IETF RFC 1812, Requirements for IP Version 4 Routers, 22 June 1995.	Mandatory	Yes
ervice Access and Delivery	Service Transport	Service Transport	Transport Control Protocol (TCP) - TCP provides transport functions, which ensures that the total amount of bytes sent is received correctly at the destination.	JTA 6.0	Information Transfer	Internetworking	IETF Standard 7/RFC 793, Transmission Control Protocol, September 1981.	Mandatory	Yes
ervice Access and Delivery	Service Transport	Service Transport	IP Security (IPSEC) – A set of protocols used to secure IP packet exchange. Tunnel and Transport are the two (2) modes supported by IPSEC. IPSEC uses certificates and Public Keys to authenticate and validate the sender and receiver.	NCOW 1.0	Information Transfer	Applications	Internet Protocol Security Policy	Emerging	No
ervice Access and Delivery	Service Transport	Service Transport	Validate the semoir and receiver. IP Security (IPSEC) – A set of protocols used to secure IP packet exchange. Tunnel and Transport are the two (2) modes supported by IPSEC. IPSEC uses certificates and Public Keys to authenticate and	JTA 6.0	Information Security	Network Layer	Internet Protocol Security Policy IETF RFC 2401, Security Architecture for the Internet Protocol, November 1998.	Mandatory	Yes

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	Formal
·	Service Transport	Service Transport	Hyper Text Transfer Protocol Secure (HTTPS) - The protocol for accessing a secure Web server. Using HTTPS in the URL instead of HTTP directs the message to a secure port number rather than the default Web port number of 80. The session is then managed by a security protocol.	FEA TRM					
Service Access and Delivery	Service Transport	Service Transport	Wireless Application Protocol (WAP) - The Wireless Application Protocol (WAP) is an open, global specification that empowers users of digital mobile phones, pagers, personal digital assistants and other wireless devices to securely access and interact with Internet/intranet/extranet content, applications, and services.	FEA TRM					
Service Access and Delivery	Service Transport	Service Transport	File Transfer Protocol (FTP) - A protocol used to transfer files over a TCP/IP network (Internet, UNIX, etc.). For example, after developing the HTML pages for a Web site on a local machine, they are typically uploaded to the Web server using FTP.	JTA 6.0	Information Transfer	File Transfer	IETF RFC 2428, FTP Extensions for IPv6 and Network Address Translators (NATs), September 1998.	Mandatory	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Communication Protocols for High- Stress, Resource- Constrained Environments	CCSDS 713.0-B-1/ISO 15891:2000, Space data and information transfer systems – Protocol specification for space communications – Network protocol, 5 October 2000.	Emerging	Yes
ŕ	Service Transport	Service Transport		JTA 6.0	Information Transfer	Communication Protocols for High- Stress, Resource- Constrained Environments	CCSDS 713.5-B-1/ISO 15892:2000, Space data and information transfer systems – Protocol specification for space communications – Security protocol, 5 October 2000.	Emerging	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Communication Protocols for High- Stress, Resource- Constrained Environments	CCSDS 714.0-B-1/ISO 15893:2000, Space data and information transfer systems – Protocol specification for space communications – Transport protocol, 5 October 2000.	Emerging	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Communication Protocols for High- Stress, Resource- Constrained Environments	CCSDS 717.0-B-1/ISO 16894:2000, Space data and information transfer systems – Protocol specification for space communications – File protocol, 5 October 2000.	Emerging	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Connectionless	MIL-STD-2045-47001C, Connectionless Data Transfer Application Layer Standard, 22 March 2002. [SUNSET] This standard will be deleted when the GES program provides message services that support real-time (RT) and near-RT requirements.	Mandatory	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Internet Protocol	IETF RFC 2236, Internet Group Management Protocol, Version 2 (IGMP v2), November 1997.	Mandatory	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Internet Protocol	IETF RFC 2460, Internet Protocol, Version 6 (IPv6) Specification, December 1998.	Mandatory	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Internet Protocol	IETF RFC 2461, Neighbor Discovery for IP Version 6, (IPv6), December 1998.	Mandatory	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Internet Protocol	IETF RFC 2462, IPv6 Stateless Address Autoconfiguration, December 1998.	Mandatory	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Internet Protocol	IETF RFC 2463, Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification, December 1998.	Mandatory	Yes
	Service Transport	Service Transport		JTA 6.0	Information Transfer	Internet Protocol	IETF RFC 1981, path MTU Discovery for IPv6, August 1996.	Emerging	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Internet Protocol	IETF RFC 2710, Multicast Listener Discovery (MLD) for IPv6, October 1999.	Emerging	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Internet Protocol	IETF RFC 3513, Internet Protocol Version 6 (IPv6) Addressing Architecture, April 2003.	Emerging	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Internet Protocol	2003.	Emerging	Yes
1	Service Transport	Service Transport		JTA 6.0	Information Transfer	Internet Protocol	IETF RFC 2794, Mobile IP Network Access Identification Extension for IPv4, March 2000.	Emerging	Yes
	Service Transport	Service Transport		JTA 6.0	Information Transfer	Internet Protocol	IETF RFC 3344, IP Mobility Support for IPv4, August 2002.	Emerging	Yes
Service Access and Delivery Service Access and Delivery	Service Transport Service Transport	Service Transport Service Transport		JTA 6.0 JTA 6.0	Information Transfer Information Transfer	Internet Protocol Internet Protocol	IETF RFC 2507, IP Header Compression, February 1999. IETF Standard 54/RFC 2328, Open Shortest Path First Routing	Emerging Mandatory	Yes Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Routing Internet Protocol Routing	Version 2, April 1998. IETF RFC 2740, OSPF for IPv6, December 1999.	Mandatory	Yes
Service Access and Delivery	Service Transport	Service Transport		NCOW 1.0	Information Transfer	Internet Protocol Routing	Inter-Domain Routing	Emerging	No
Service Access and Delivery	Service Transport	Service Transport		NCOW 1.0	Information Transfer	Internet Protocol Routing	Multicast Networking	Emerging	No
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Internetworking	JULY 1992, to be used for initialization only.	Mandatory	Yes

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Internetworking	IETF Standard 6/RFC 768, User Datagram Protocol, 28 August	Mandatory	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Internetworking	IETF Standard 8/RFC 854/RFC 855, TELNET Protocol, May 1983.	Mandatory	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Internetworking	IETF RFC 3152, Delegation of IP6.ARPA, August 2001.	Mandatory	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Internetworking	IETF RFC 3315, Dynamic Host Configuration Protocol for IPv6 (DHCPv6), July 2003.	Emerging	Yes
Service Access and Delivery	Service Transport	Service Transport		NCOW 1.0	Information Transfer	Link Layer	Tag Switching for IP Routing	Emerging	No
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Local Area Network Access	IETF Standard 41/RFC 894, Standard for the Transmission of IP Datagrams Over Ethernet Networks, April 1984.	Mandatory	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Local Area Network Access	IETF Standard 37/RFC 826, An Ethernet Address Resolution Protocol, November 1982.	Mandatory	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Local Area Network Access		Emerging	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Local Area Network Access		Emerging	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Local Area Network Access	IEEE 802.11b-1999, Supplement to Information technology — Telecommunications and information exchange between systems — Local and metropolitan area networks — Specific requirements — Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PPHY) Specifications: Higher Speed Physical Layer (PPHY)	Emerging	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Local Area Network		Emerging	Yes
						Access	Networks, December 1998.		
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Network Services	IETF Standard 5/RFC 791/RFC 950/RFC 919/RFC 922/RFC 792/RFC 1112, Internet Protocol, September 1981. In addition, all implementations of IP must pass the 8-bit Type-of-Service (TOS) byte transparently up and down through the transport layer as defined in IETF Standard 3, Requirements for Internet Hosts, Communications Layers, October 1989.	Mandatory	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Network Services	IETF RFC 2236, Internet Group Management Protocol, Version 2 (IGMPv2), November 1997.	Mandatory	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Network Services	IETF RFC 2460, Internet Protocol, Version 6 (IPv6) Specification, December 1998.	Mandatory	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Network Services	IETF RFC 2461, Neighbor Discovery for IP Version 6, (IPv6), December 1998.	Mandatory	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Network Services	IETF RFC 2462, IPv6 Stateless Address Autoconfiguration, December 1998.	Mandatory	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Network Services	IETF RFC 2463, Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification, December 1998.	Mandatory	Yes
Service Access and Delivery		Service Transport		NCOW 1.0	Information Transfer	Physical Layer	Mobile Networking	Emerging	No
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Point-to-Point	IETF RFC 1332, PPP Internet Protocol Control Protocol (IPCP), May 1992.	Mandatory	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Point-to-Point	IETF Standard 51/RFC 1661/RFC 1662, Point-to-Point Protocol (PPP), July 1994.	Mandatory	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Point-to-Point	IETF RFC 1989, PPP Link Quality Monitoring (LQM), 16 August 1996.	Mandatory	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Point-to-Point	IETF RFC 1994, PPP Challenge Handshake Authentication Protocol (CHAP), August 1996.	Mandatory	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Point-to-Point		Mandatory	Yes
Service Access and Delivery Service Access and Delivery	Service Transport Service Transport	Service Transport Service Transport		JTA 6.0 JTA 6.0	Information Transfer Information Transfer	Point-to-Point Point-to-Point	IETF RFC 2472, IP Version 6 over PPP, December 1998. EIA/TIA-232-F, Interface Between Data Terminal Equipment and Data Circuit Terminating Equipment Employing Serial Binary Data Interchange, October 1997.	Mandatory Mandatory	Yes Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Point-to-Point	T1997. EIA/TIA-530-A, High Speed 25-Position Interface for Data Terminal Equipment and Data Circuit Terminating Equipment, Including Alternative 26- Position Connector, December 1998. (This calls out TIA/EIA-422-B and -423-B).	Mandatory	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Point-to-Point		Emerging	Yes
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FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Point-to-Point	IETF RFC 3241, Robust Header Compression (ROHC) over PPP, April 2002.	Emerging	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Point-to-Point	IETF RFC 2472, IP Version 6 over PPP, December 1998.	Emerging	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Point-to-Point	IETF RFC 3241, Robust Header Compression (ROHC) over PPP, April 2002.	Emerging	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Remote Terminal	IETF Standard 8/RFC 854/RFC 855, TELNET Protocol, May 1983.	Mandatory	Yes
Service Access and Delivery Service Access and Delivery	Service Transport Service Transport	Service Transport Service Transport		JTA 6.0 JTA 6.0	Information Transfer Information Transfer	Transport Services Transport Services	IETF RFC 2581, TCP Congestion Control, April 1999. IETF Standard 6/RFC 768, User Datagram Protocol, 28 August	Mandatory Mandatory	Yes Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Transport Services	1980. IETF RFC 2126, ISO Transport Service on Top of TCP (ITOT),	Emerging	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Transport Services	March 1997. IETF RFC 1981, Path MTU Discovery for IPv6, August 1996.	Emerging	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Transport Services	IETF RFC 2473, Generic Packet Tunneling in IPv6	Emerging	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Transport Services	Specification, December 1998. IETF RFC 2710, Multicast Listener Discovery (MLD) for IPv6,	Emerging	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Transport Services	October 1999. IETF RFC 3513, Internet Protocol Version 6 (IPv6) Addressing	Emerging	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Transport Services	Architecture, April 2003. IETF RFC 3587, IPv6 Global Unicast Address Format, August	Emerging	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Transport Services	2003. IETF RFC 2794, Mobile IP Network Access Identification	Emerging	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Transport Services	Extension for IPv4, March 2000. IETF RFC 3344, IP Mobility Support for IPv4, August 2002.	Emerging	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Transport Services	IETF RFC 2507, IP Header Compression, February 1999.	Emerging	Yes
Service Access and Delivery	Service Transport	Service Transport		NCOW 1.0	Information Transfer	Transport Services	Emerging Transport Services	Emerging	No
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Transfer	Web Services	IETF RFC 2732, Format for Literal IPv6 Addresses in URLs, December 1999.	Emerging	Yes
Service Access and Delivery	Service Transport	Service Transport		JTA 6.0	Information Security	Common Evaluation Criteria	ISO/IEC 15408:1999, Information technology – Security techniques – Evaluation criteria for information technology security (parts 1 through 3), 1 December 1999.	Mandatory	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Network Management Protocol (SNMP) - SNMP eliminates several of the security vulnerabilities in earlier version.	JTA 6.0	Information Transfer	Data Communications Management	IETF Standard 15/RFC 1157, Simple Network Management Protocol (SNMP), May 1990.	Mandatory	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Directory Services (X.500) – This is a network service that discovers and identifies resources on a network and makes them accessible to users and applications. The resources include users, e-mail addresses, computers, mapped drives, shared folders, and peripherals such as printers and PDA docking stations. Users and computers access these resources without the needing to know how or where the resources are connected.		Information Transfer	Directory	ITU-T X.500, The Directory – Overview of Concepts, Models, and Services – Data Communication Networks Directory, 1993. [SUNSET] This standard will be deleted when Global Directory Service (GDS) can provide this service.	Mandatory	Yes
Service Access and Delivery	Service Transport	Supporting Network Services		JTA 6.0	Information Transfer	Directory	IETF Standard 13/RFC 1034/RFC 1035, Domain Name System, November 1987.	Mandatory	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Mail Transfer Protocol (SMTP) – SMTP facilitates transfer of electronic-mail messages. It specifies how two systems are to interact, and the messages format used to control the transfer of electronic mail. (Refers to RFC821)	JTA 6.0	Information Transfer	Electronic Mail	IETF RFC 2821, Simple Mail Transfer Protocol, April 2001.	Mandatory	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Multipurpose Internet Mail Extensions (MIME) – MIME extends the format of Internet mail to allow non-US-American Standard Code for Information Interchange (ASCII) textual messages, non-textual messages, multi-part message bodies, and non-US-ASCII information in message headers. MIME support allows compliant email clients and servers to accurately communicate embedded information to internal and external users. (Refers to RFC 2045)	JTA 6.0	Information Transfer	Electronic Mail	IETF RFCs 2045-2049, Multipurpose Internet Mail Extensions (MIME) Parts 1-5, November 1996.	Mandatory	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Border Gateway Protocol (BGP) – Refers to a routing protocol used to exchange routing information between routers on a network, enabling more efficient routing of data. BGP is part of RFC 1771.	JTA 6.0	Information Transfer	Internet Protocol Routing	IETF RFC 1771, A Border Gateway Protocol 4 (BGP-4), 21 March 1995.	Mandatory	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	T.120 – T.120, an International Telecommunications Union (ITU) standard, contains a series of communication and application protocols and services that provide support for real-time, multipoint data communications. These multipoint facilities are important building blocks for collaborative applications, including desktop data conferencing, and multi-user applications.		Information Transfer	Video Teleconferencing	ITU-T T.120, Data Protocols for Multimedia Conferencing, July 1996.	Mandatory	Yes
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FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Service Access and Delivery	Service Transport	Supporting Network Services	H.323 – H.323, an International Telecommunications Union (ITU) standard, addresses Video (Audiovisual) communication on Local Area Networks, including Corporate Intranets and packet-switched networks generally.	JTA 6.0	Information Transfer	Video Teleconferencing	ITU-T H.323, Packet-based Multimedia Communications Systems, February 1998.	Mandatory	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Network Management Protocol (SNMP) - SNMP eliminates several of the security vulnerabilities in earlier version.	JTA 6.0	Information Transfer	Data Communications Management	IETF RFC 2571, An Architecture for Describing SNMP Management Frameworks, April 1999.	Emerging	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Network Management Protocol (SNMP) - SNMP eliminates several of the security vulnerabilities in earlier version.	JTA 6.0	Information Transfer	Data Communications Management	IETF RFC 2572, Message Processing and Dispatching for the Simple Network Management Protocol (SNMP), April 1999.	Emerging	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Network Management Protocol (SNMP) - SNMP eliminates several of the security vulnerabilities in earlier version.	JTA 6.0	Information Transfer	Data Communications Management	IETF RFC 2573, SNMP Applications, April 1999.	Emerging	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Network Management Protocol (SNMP) - SNMP eliminates several of the security vulnerabilities in earlier version.	JTA 6.0	Information Transfer	Data Communications Management	IETF RFC 2574, User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3), April 1999.	Emerging	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Network Management Protocol (SNMP) - SNMP eliminates several of the security vulnerabilities in earlier version.	JTA 6.0	Information Transfer	Data Communications Management	IETF RFC 2575, View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP), April 1999.	Emerging	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Domain Name System (DNS) – A protocol used for translating domain names (i.e. www.feapmo.gov) to their respective IP addresses. DNS is collectively a network of devices which store query results. As one DNS server or device cannot provide the translated IP address, it queries other DNS devices. This process is invisible to the user.	JTA 6.0	Information Transfer	Data Communications Management	IETF RFC 1611, DNS Server MIB Extensions, May 1994.	Emerging	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Domain Name System (DNS) – A protocol used for translating domain names (i.e. www.feapmo.gov) to their respective IP addresses. DNS is collectively a network of devices which store query results. As one DNS server or device cannot provide the translated IP address, it queries other DNS devices. This process is invisible to the user.	JTA 6.0	Information Transfer	Data Communications Management	IETF RFC 1612, DNS Resolver MIB Extensions, May 1994.	Emerging	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Border Gateway Protocol (BGP) – Refers to a routing protocol used to exchange routing information between routers on a network, enabling more efficient routing of data. BGP is part of RFC 1771.	JTA 6.0	Information Transfer	Data Communications Management	IETF RFC 1657, Definitions of Management Objects for the Fourth Version of the Border Gateway Protocol (BGP-4) using SMIv2, July 1994.	Emerging	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Network Management Protocol (SNMP) - SNMP eliminates several of the security vulnerabilities in earlier version.	JTA 6.0	Information Transfer	Data Communications Management	IETF RFC 2011, SNMPv2 Management Information Base for the Internet Protocol, using SMIv2, November 1996.	Emerging	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Network Management Protocol (SNMP) - SNMP eliminates several of the security vulnerabilities in earlier version.	JTA 6.0	Information Transfer	Data Communications Management	IETF RFC 2012, SNMPv2 Management Information Base for the Transmission Control Protocol (TCP), using SMIv2, November 1996.	Emerging	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Directory Services (X.500) – This is a network service that discovers and identifies resources on a network and makes them accessible to users and applications. The resources include users, e-mail addresses, computers, mapped drives, shared folders, and peripherals such as printers and PDA docking stations. Users and computers access these resources without the needing to know how or where the resources are connected.		Information Transfer	Data Communications Management	IETF RFC 2605, Directory Server Monitoring MIB, June 1999.	Emerging	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Lightweight Directory Access Protocol (LDAP) - LDAP is a subset of X.500 designed to run directly over the TCP/IP stack. LDAP is, like X.500, both an information model and a protocol for querying and manipulating it. LDAPv3 is an update developed in the IETF (Internet Engineering Task Force), which address the limitations found during deployment of the previous version of LDAP. (Refers to LDAP V3, RFC 1779)	JTA 6.0	Information Transfer	Directory	IETF RFC 1777, Lightweight Directory Access Protocol, March 1995.	Mandatory	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Domain Name System (DNS) – A protocol used for translating domain names (i.e. www.feapmo.gov) to their respective IP addresses. DNS is collectively a network of devices which store query results. As one DNS server or device cannot provide the translated IP address, it queries other DNS devices. This process is invisible to the user.	JTA 6.0	Information Transfer	Directory	IETF RFC 2136, Dynamic Updates in the Domain Name System, April 1997.	Mandatory	Yes
Service Access and Delivery DoD EA TRM Appen	Service Transport	Supporting Network Services	Directory Services (X.500) – This is a network service that discovers and identifies resources on a network and makes them accessible to users and applications. The resources include users, e-mail addresses, computers, mapped drives, shared folders, and peripherals such as printers and PDA docking stations. Users and computers access these resources without the needing to know how or where the resources are connected.		Information Transfer	Directory	ITU-T X.500, The Directory – Overview of Concepts, Models, and Services – Data Communication Networks Directory, February 2001.	Emerging	Yes

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Service Access and Delivery	Service Transport	Supporting Network Services	Lightweight Directory Access Protocol (LDAP) - LDAP is a subset of X.500 designed to run directly over the TCP/IP stack. LDAP is, like X.500, both an information model and a protocol for querying and manipulating it. LDAPv3 is an update developed in the IETF (Internet Engineering Task Force), which address the limitations found during deployment of the previous version of LDAP. (Refers to LDAP V3, RFC 1779)		Information Transfer	Directory	IETF RFC 2251, Lightweight Directory Access Protocol Version 3, December 1997.	Emerging	Yes
Service Access and Delivery	Service Transport	Supporting Network Services		JTA 6.0	Information Transfer	Directory	IETF RFC 1995, Incremental Zone Transfer in DNS, August 1996.	Emerging	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Domain Name System (DNS) – A protocol used for translating domain names (i.e. www.feapmo.gov) to their respective IP addresses. DNS is collectively a network of devices which store query results. As one DNS server or device cannot provide the translated IP address, it queries other DNS devices. This process is invisible to the user.	JTA 6.0	Information Transfer	Directory	IETF RFC 1996, A Mechanism for Prompt Notification of Zone Changes (DNS NOTIFY), August 1996.	Emerging	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Mail Transfer Protocol (SMTP) – SMTP facilitates transfer of electronic-mail messages. It specifies how two systems are to interact, and the messages format used to control the transfer of electronic mail. (Refers to RFC821)	JTA 6.0	Information Transfer	Electronic Mail	IETF RFC 1870, Simple Mail Transfer Protocol Services Extension for Message Size Declaration, November 1995.	Mandatory	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Multipurpose Internet Mail Extensions (MIME) – MIME extends the format of Internet mail to allow non-US-American Standard Code for Information Interchange (ASCII) textual messages, non-textual messages multi-part message bodies, and non-US-ASCII information in message headers. MIME support allows compliant email clients and servers to accurately communicate embedded information to internal and external users. (Refers to RFC 2045)	JTA 6.0	Information Transfer	Electronic Mail	IETF RFC 2231, MIME Parameter Value and Encoded Word Extensions: Character Sets, Languages, and Continuations, November 1997.	Emerging	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Border Gateway Protocol (BGP) – Refers to a routing protocol used to exchange routing information between routers on a network, enabling more efficient routing of data. BGP is part of RFC 1771.	JTA 6.0	Information Transfer	Internet Protocol Routing	IETF RFC 1772, Application of the Border Gateway Protocol in the Internet, March 1995.	Mandatory	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Dynamic Host Configuration Protocol (DHCP) – A protocol for assigning dynamic IP addresses to devices on a network. A device can receive a different IP address for every connection. Dynamic addressing provides reduced network administration over deploying and connecting user and peripheral devices.	JTA 6.0	Information Transfer	Internetworking	IETF RFC 2131, Dynamic Host Configuration Protocol, March 1997.	Mandatory	Yes
Service Access and Delivery	Service Transport	Supporting Network Services		JTA 6.0	Information Transfer	Internetworking	IETF RFC 2132, DHCP Options and BOOTP Vendor Extensions, March 1997.	Mandatory	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	translating domain names (i.e. www.feapmo.gov) to their respective IP addresses. DNS is collectively a network of devices which store query results. As one DNS server or device cannot provide the translated IP address, it queries other DNS devices. This process is invisible to the user.	JTA 6.0	Information Security	Naming Service	IETF RFC 2535, DNS Security Extensions, March 1999.	Emerging	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Internet Message Access Protocol / Post Office Protocol (IMAP / POP3) – IMAP allows a client to access and manipulate electronic mail messages on a server. IMAP permits manipulation of remote message folders, called "mailboxes", in a way that is functionally equivalent to local mailboxes. IMAP also provides the capability for an offline client to resynchronize with the server. POP3 is the most commonly used protocol for retrieving e-mail from a mail host. (Refers to RFC2060)	FEA TRM					
Service Access and Delivery	Service Transport	Supporting Network Services	Extended Simple Mail Transfer Protocol (ESMTP) - ESMTP allows new service extensions to SMTP to be defined and registered with Internet Assigned Numbers Authority (IANA). (Refers to RFC1869)	FEA TRM					

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Service Access and Delivery	Service Transport	Supporting Network Services	X.400 – An ISO and ITU standard for e-mail message addressing and transporting. X.400 supports Ethernet X.25, TCP/IP and dial-up transport methods.	FEA TRM					
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Network Management Protocol (SNMP) - SNMP eliminates several of the security vulnerabilities in earlier version.	JTA 6.0	Information Transfer	Data Communications Management	IETF RFC 2013, SNMPv2 Management Information Base for the User Datagram Protocol (UDP) using SMIv2, November 1996.	Emerging	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Dynamic Host Configuration Protocol (DHCP) – A protocol for assigning dynamic IP addresses to devices on a network. A device can receive a different IP address for every connection. Dynamic addressing provides reduced network administration over deploying and connecting user and peripheral devices.	JTA 6.0	Information Transfer	Configuration Information	IETF RFC 3315, Dynamic Host Configuration Protocol for IPv6 (DHCPv6), July 2003.	Emerging	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Domain Name System (DNS) – A protocol used for translating domain names (i.e. www.feapmo.gov) to their respective IP addresses. DNS is collectively a network of devices which store query results. As one DNS server or device cannot provide the translated IP address, it queries other DNS devices. This process is invisible to the user.	JTA 6.0	Information Transfer	Directory	IETF RFC 1886, DNS Extensions to Support IPv6, December 1995.	Mandatory	Yes
Service Access and Delivery	Service Transport	Supporting Network Services		JTA 6.0	Information Security	Naming Service	IETF RFC 2845, Secret Key Transaction Authentication for DNS (TSIG), May 2000.	Emerging	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Border Gateway Protocol (BGP) – Refers to a routing protocol used to exchange routing information between routers on a network, enabling more efficient routing of data. BGP is part of RFC 1771.	JTA 6.0	Information Transfer	Internet Protocol Routing	IETF RFC 2858, Multiprotocol Extensions for BGP-4, June 2000.	Mandatory	Yes
Service Access and Delivery	Service Transport	Supporting Network Services	Border Gateway Protocol (BGP) – Refers to a routing protocol used to exchange routing information between routers on a network, enabling more efficient routing of data. BGP is part of RFC 1771.	JTA 6.0	Information Transfer	Internet Protocol Routing	IETT RFC 2545, Use of BGP-4 Multiprotocol Extensions for IPv6 Inter-Domain Routing, March 1999.	Mandatory	Yes
Service Access and Delivery	Service Transport	Supporting Network Services		JTA 6.0	Information Transfer	Directory	IETF RFC 3152, Delegation of IP6.ARPA, August 2001.	Mandatory	Yes
Service Access and Delivery Service Interface and Integration	Service Transport Integration	Supporting Network Services Enterprise Application Integration	Business Process Management – This process is responsible for the definition and management of cross-application business processes across the enterprise and/or between enterprises.	FEA TRM	Policy	Directory	Directory Enabled Networking	Emerging	No
Service Interface and Integration	Integration	Enterprise Application Integration	Application Connectivity – This process provides reusable, non-invasive connectivity with packaged software. This connectivity is provided by uni- or bi- directional adapters.	FEA TRM					
Service Interface and Integration	Integration	Enterprise Application Integration	responsible for the conversion of data, message content, information structure, and syntax to reconcile differences in data amongst multiple systems and data sources.	FEA TRM					
Service Interface and Integration	Integration	Middleware	Database Access: OPEN ANSI SQL/92) – SQL is the information processing industry standard language of relational database management systems (RDMS). ANSI X3.135-1992 (also referred to as SQL-92 and ANSI SQL) is the industry standard for Database Language SQL. This standard promotes the portability and interoperability of database application programs and facilitates maintenance of database systems across heterogeneous data processing environments. SQL-92 provides a standardized way for embedding SQL statements into application development languages. Database Access provides access to and across multiple database technologies in a distributed environment. Database Access is provided through the use of native database Application Programming Interfaces (APIs), client-side APIs, or server-side database gateways.	JTA 6.0	Information Processing	Data Management	ISO/IEC 9075:1992, Information technology – Database language – SQL with Amendment 1, 1996, as modified by FIPS PUB 127-2:1993, Database language for Relational DBMSs. (Entry Level SQL).	Mandatory	Yes

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	Formal
Service Interface and Integration	Integration	Middleware	Database Access: OPEN ANSI SQL/92) – SQL is the information processing industry standard language of relational database management systems (RDMS). ANSI X3.135-1992 (also referred to as SQL-92 and ANSI SQL) is the industry standard for Database Language SQL. This standard promotes the portability and interoperability of database application programs and facilitates maintenance of database systems across heterogeneous data processing environments. SQL-92 provides a standardized way for embedding SQL statements into application development languages. Database Access provides access to and across multiple database etchnologies in a distributed environment. Database Access is provided through the use of native database Application Programming Interfaces (APIs), client-side APIs, or server-side database gateways.	JTA 6.0	Information Processing	Data Management	ISO/IEC 9075-3:1995, Information technology – Database languages – SQL – Part 3:Call-Level Interface (SQL/CLI).	Mandatory	Yes
Service Interface and Integration	Integration	Middleware	Database Access: OPEN ANSI SQL/92) – SQL is the information processing industry standard language of relational database management systems (RDMS). ANSI X3.135-1992 (also referred to as SQL-92 and ANSI SQL) is the industry standard for Database Language SQL. This standard promotes the portability and interoperability of database application programs and facilitates maintenance of database systems across heterogeneous data processing environments. SQL-92 provides a standardized way for embedding SQL statements into application development languages. Database Access provides access to and across multiple database technologies in a distributed environment. Database Access is provided through the use of native database Application Programming Interfaces (APIs), client-side APIs, or server-side database gateways.	JTA 6.0	Information Processing	Data Management	ANSI X3.135.10-1998: Information technology – Database languages – SQL – Part 10: Object Language Bindings (SQL/OLB).	Mandatory	Yes
Service Interface and Integration	Integration	Middleware	Database Access: OPEN ANSI SQL/92) – SQL is the information processing industry standard language of relational database management systems (RDMS). ANSI X3.135-1992 (also referred to as SQL-92 and ANSI SQL) is the industry standard for Database Language SQL. This standard promotes the portability and interoperability of database application programs and facilitates maintenance of database systems across heterogeneous data processing environments. SQL-92 provides a standardized way for embedding SQL statements into application development languages. Database Access provides access to and across multiple database technologies in a distributed environment. Database Access is provided through the use of native database Application Programming Interfaces (APIs), client-side APIs, or server-side database gateways.		Information Processing	Data Management	ANSI/ISO/IEC 9075-1:1999, Information technology – Database languages – SQL – Part 1: Framework (SQL/Framework).	Emerging	Yes
Service Interface and Integration	Integration	Middleware	Database Access: OPEN ANSI SQL/92) – SQL is the information processing industry standard language of relational database management systems (RDMS). ANSI X3.135-1992 (also referred to as SQL-92 and ANSI SQL) is the industry standard for Database Language SQL. This standard promotes the portability and interoperability of database application programs and facilitates maintenance of database systems across heterogeneous data processing environments. SQL-92 provides a standardized way for embedding SQL statements into application development languages. Database Access provides access to and across multiple database technologies in a distributed environment. Database Access is provided through the use of native database Application Programming Interfaces (APIs), client-side APIs, or server-side database gateways.	JTA 6.0	Information Processing	Data Management	ANSI/ISO/IEC 9075-2:1999, Information technology – Database languages – SQL – Part 2: Foundation (SQL/Foundation).	Emerging	Yes

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	Formal
Service Interface and Integration	Integration	Middleware	Database Access: OPEN ANSI SQL/92) – SQL is the information processing industry standard language of relational database management systems (RDMS). ANSI X3.135-1992 (also referred to as SQL-92 and ANSI SQL) is the industry standard for Database Language SQL. This standard promotes the portability and interoperability of database application programs and facilitates maintenance of database systems across heterogeneous data processing environments. SQL-92 provides a standardized way for embedding SQL statements into application development languages. Database Access provides access to and across multiple database etchnologies in a distributed environment. Database Access is provided through the use of native database Application Programming Interfaces (APIs), client-side APIs, or server-side database gateways.	JTA 6.0	Information Processing	Data Management	ANSI/ISO/IEC 9075-3:1999, Information technology — Database languages — SQL — Part 3: Call-Level Interface (for SQL3).	Emerging	Yes
Service Interface and Integration	Integration	Middleware	Database Access: OPEN ANSI SQL/92) – SQL is the information processing industry standard language of relational database management systems (RDMS). ANSI X3.135-1992 (also referred to as SQL-92 and ANSI SQL) is the industry standard for Database Language SQL. This standard promotes the portability and interoperability of database application programs and facilitates maintenance of database systems across heterogeneous data processing environments. SQL-92 provides a standardized way for embedding SQL statements into application development languages. Database Access provides access to and across multiple database technologies in a distributed environment. Database Access is provided through the use of native database Application Programming Interfaces (APIs), client-side APIs, or server-side database gateways.	JTA 6.0	Information Processing	Data Management	ANSI/ISO/IEC 9075-4:1999, Information technology – Database languages – SQL – Part 4: Persistent Stored Modules (SQL/PSM).	Emerging	Yes
Service Interface and Integration	Integration	Middleware	Database Access: OPEN ANSI SQL/92) – SQL is the information processing industry standard language of relational database management systems (RDMS). ANSI X3.135-1992 (also referred to as SQL-92 and ANSI SQL) is the industry standard for Database Language SQL. This standard promotes the portability and interoperability of database application programs and facilitates maintenance of database systems across heterogeneous data processing environments. SQL-92 provides a standardized way for embedding SQL statements into application development languages. Database Access provides access to and across multiple database technologies in a distributed environment. Database Access is provided through the use of native database application Programming Interfaces (APIs), client-side APIs, or server-side database gateways.		Information Processing	Data Management	ANSI/ISO/IEC 9075-5:1999, Information technology – Database languages – SQL – Part 5: Host Language Bindings (SQL/Bindings).	Emerging	Yes
Service Interface and Integration	Integration	Middleware	Database Access: OPEN ANSI SQL/92) – SQL is the information processing industry standard language of relational database management systems (RDMS). ANSI X3.135-1992 (also referred to as SQL-92 and ANSI SQL) is the industry standard for Database Language SQL. This standard promotes the portability and interoperability of database application programs and facilitates maintenance of database systems across heterogeneous data processing environments. SQL-92 provides a standardized way for embedding SQL statements into application development languages. Database Access provides access to and across multiple database technologies in a distributed environment. Database Access is provided through the use of native database Application Programming Interfaces (APIs), client-side APIs, or server-side database gateways.	JTA 6.0	Information Processing	Data Management	ISO/IEC 13249-3:1999, Information technology – Database languages – SQL multimedia and application packages – Part 3: Spatial.	Emerging	Yes

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Service Interface and Integration	Integration	Middleware	Database Access: OPEN ANSI SQL/92) – SQL is the information processing industry standard language of relational database management systems (RDMS). ANSI X3.135-1992 (also referred to as SQL-92 and ANSI SQL) is the industry standard for Database Language SQL. This standard promotes the portability and interoperability of database application programs and facilitates maintenance of database systems across heterogeneous data processing environments. SQL-92 provides a standardized way for embedding SQL statements into application development languages. Database Access provides access to and across multiple database technologies in a distributed environment. Database Access is provided through the use of native database Application Programming Interfaces (APIs), client-side APIs, or server-side database gateways.		Information Processing	Data Management	ISO/IEC 9579:2000, Information technology – Remote database access for SQL with security enhancement.	Emerging	Yes
Service Interface and Integration	Integration	Middleware	Object Request Broker (ORB): Common Object Request Broker Architecture (CORBA) – An architecture that enables objects to communicate with one another regardless of what programming language they were written in or what operating system they're running on. Object Request Broker (ORB) is a technology enabling distributed objects to communicate and exchange data with remote objects. ORB encapsulates the locality and implementation of the objects, allowing users to develop applications that leverage components by accessing the components interface.	JTA 6.0	Information Processing	Distributed Computing	OMG document formal/99-10-07, Common Object Request Broker: Architecture and Specification, Version 2.3.1, October 1999.	Mandatory	Yes
Service Interface and Integration	Integration	Middleware		JTA 6.0	Information Processing	Distributed Computing	OMG document formal/2000-06-19, Naming Service Specification, Version 1.0, April 2000.	Mandatory	Yes
Service Interface and Integration	Integration	Middleware		JTA 6.0	Information Processing	Distributed Computing	OMG document formal/2000-06-15, Event Service Specification, Version 1.0, June 2000.	Mandatory	Yes
Service Interface and Integration	Integration	Middleware		JTA 6.0	Information Processing	Distributed Computing	OMG document formal/2000-06-28, Transaction Service Specification, Version 1.1, May 2000.	Mandatory	Yes
Service Interface and Integration	Integration	Middleware		JTA 6.0	Information Processing	Distributed Computing	OMG document formal/2000-06-26, Time Service Specification, Version 1.0, May 2000.	Mandatory	Yes 7 PM9/13/20

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Service Interface and Integration	Integration	Middleware	Object Request Broker (ORB): Common Object Request Broker Architecture (CORBA) – An architecture that enables objects to communicate with one another regardless of what programming language they were written in or what operating system they're running on. Object Request Broker (ORB) is a technology enabling distributed objects to communicate and exchange data with remote objects. ORB encapsulates the locality and implementation of the objects, allowing users to develop applications that leverage components by accessing the components interface.	JTA 6.0	Information Processing	Distributed Computing	OMG document formal/2000-06-27, Trading Object Service Specification, Version 1.0, May 2000.	Mandatory	Yes
Service Interface and Integration	Integration	Middleware	Object Request Broker (ORB): Common Object Request Broker Architecture (CORBA) — An architecture that enables objects to communicate with one another regardless of what programming language they were written in or what operating system they're running on. Object Request Broker (ORB) is a technology enabling distributed objects to communicate and exchange data with remote objects. ORB encapsulates the locality and implementation of the objects, allowing users to develop applications that leverage components by accessing the components interface.	JTA 6.0	information Processing	Distributed Computing	OMG document formal/2000-06-20, Notification Service Specification, Version 1.0, June 2000.	Mandatory	Yes
Service Interface and Integration	Integration	Middleware	Remote Procedure Call (RPC) – RPC is a protocol allowing a program on a client computer to invoke a program on a server computer.	FEA TRM					
Service Interface and Integration	Integration	Middleware	Message-Oriented Middleware (MOM): IBM Websphere MQ – Software solution providing APIs, queue management, message routing, automatic fail-over, and workload balancing. Message-Oriented Middleware (MOM) is software residing in both sides of the client/server architecture providing support for asynchronous calls, or messages, between applications. Message queues are used to track and store requests waiting for execution by the source application. Messaging allows otherwise complex programming and networking details to be abstracted from the developer.	FEA TRM					
Service Interface and Integration	Integration	Middleware	Message-Oriented Middleware (MOM): Microsoft Message Queue (MSMQ) —Software technology providing synchronous and asynchronous message queueing, routing, and security. Message-Oriented Middleware (MOM) is software residing in both sides of the client/server architecture providing support for asynchronous calls, or messages, between applications. Message queues are used to track and store requests waiting for execution by the source application. Messaging allows otherwise complex programming and networking details to be abstracted from the developer.	FEA TRM					
Service Interface and Integration	Integration	Middleware	Database Access: PL/SQL – Oracle's procedural extension to industry-standard SQL. Database Access provides access to and across multiple database technologies in a distributed environment. Database Access is provided through the use of native database Application Programming Interfaces (APIs), client-side APIs, or server-side database gateways.	FEA TRM					
Service Interface and Integration	Integration	Middleware	Database Access: ISQL/w – Microsoft's implementation of ANSI SQL. Database Access provides access to and across multiple database technologies in a distributed environment. Database Access is provided through the use of native database Application Programming Interfaces (APIs), client-side APIs, or server-side database gateways.	FEA TRM					

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name Mandatory or Emerging	
Service Interface and Integration	Integration	Middleware	Database Access: NET8 – NET8 (called SQL*NET prior to Oracle8) is Oracle's client/server middleware product that offers transparent connection from client tools to the database, or from one database to another. SQL*Net/ Net8 works across multiple networh protocols and operating systems. Previous versions referred to as SQL*Net. Database Access provides access to and across multiple database technologies in a distributed environment. Database Access is provided through the use of native database Application Programming Interfaces (APIs), client-side APIs, or server-side database gateways.	FEA TRM				
Service Interface and Integration	Integration	Middleware	Transaction Processing Monitor – Software providing synchronous messaging and queuing along with other transaction management services designed to support the efficient processing of high volumes of transactions. Core services include load balancing, rollback/commit, and recovery. Transaction Processing provides cost-effective scalability to applications and database systems by managing and throttling transactions on behalf of the database system.	FEA TRM				
Service Interface and Integration	Integration	Middleware	Object Request Broker (ORB): Component Object Model (COM) – A software architecture created by Microsoft to design and build component-based applications. COM object capabilities are accessible from exposed interfaces. Object Request Broker (ORB) is a technology enabling distributed objects to communicate and exchange data with remote objects. ORB encapsulates the locality and implementation of the objects, allowing users to develop applications that leverage components by accessing the components interface.	FEA TRM				
Service Interface and Integration	Integration	Middleware	Object Request Broker (ORB): Distributed Component Object Model (DCOM) – An extension of the Component Object Model (COM) that allows COM components to communicate across network boundaries. Traditional COM components can only perform interprocess communication across process boundaries on the same machine. Object Request Broker (ORB) is a technology enabling distributed objects to communicate and exchange data with remote objects. ORB encapsulates the locality and implementation of the objects, allowing users to develop applications that leverage components by accessing the components interface.	FEA TRM				
Service Interface and Integration	Integration	Middleware	Object Request Broker (ORB): Component Object Model + (COM+) – COM+ is an extension of the COM that provides a runtime and services that are readily used from any programming language or tool, and enables extensive interoperability between components regardless of how they were implemented. Object Request Broker (ORB) is a technology enabling distributed objects to communicate and exchange data with remote objects. ORB encapsulates the locality and implementation of the objects, allowing users to develop applications that leverage components by accessing the components interface.	FEA TRM				
Service Interface and Integration	Integration	Middleware		JTA 6.0	Information Processing	Data Management	The Object Database Standard: ODMG 3.0, R.G.G. Cattell et al, eds. The Morgan Kaufmann Series in Data Management, 2000, ISBN 1-55860-647-4.	Yes
Service Interface and Integration	Integration	Middleware		NCOW 1.0	Information Transfer	Data Management	Content Storage Distribution & Management	No
Service Interface and Integration	Integration	Middleware		JTA 6.0	Information Processing	Environment Management	Content Storage Distribution wantagement DoD-5015.2-STD, Design Criteria Standard for Electronic Records Management Software Applications, 19 June 2002 (Sections 2.2.1–2.2.1.1 only).	Yes
Service Interface and Integration	Integration	Middleware		JTA 6.0	Information Processing	Environment Management	IEEE 148.4.1, Standard for Information Technology – Education and Training Systems Architecture and Reference Model, LTSA Draft 9, 2001-11-30.	Yes
Service Interface and Integration	Integration	Middleware		JTA 6.0	Information Processing	Environment Management	IEEE P1484.2, Standard for Information Technology – Learning Systems – Learner Model, PAPI Learner, Draft 7, 2000-11-29.	Yes

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Service Interface and Integration	Integration	Middleware		JTA 6.0	Information Processing	Environment Management	IEEE 1484.11.1, Draft Standard for Learning Technology – Data Model for Content to LMS Communications, 2001-03-15.	Emerging	Yes
Service Interface and Integration	Integration	Middleware		JTA 6.0	Information Processing	Environment Management	IEEE 1484.12.1, Draft Standard for Learning Object Metadata, 2002-03-04.	Emerging	Yes
	Interface	Service Description / Interface	Web Services Description Language (WSDL) - WSDL is an XML based Interface Description Language for describing XML Web Services and how to use them. http://www.w3.org/TR/wsdl	JTA 6.0	Information Processing	Data Interchange	Web Services Description Language (WSDL) 1.1, W3C Note, 15 March 2001.	Emerging	Yes
Service Interface and Integration	Interface	Service Description / Interface	Application Program Interface (API) / Protocol - A language and message format used by an application program to communicate with the operating system or some other control program such as a database management system (DBMS) or communications protocol. APIs are implemented by writing function calls in the program, which provide the linkage to the required subroutine for execution. Thus, an API implies that some program module is available in the computer to perform the operation or that it must be linked into the existing program to perform the tasks.	FEA TRM					
Service Interface and	Interface	Service Discovery		NCOW 1.0	Human-Computer	Applications		Emerging	No
Integration Service Interface and Integration	Interface	Service Discovery	Universal Description Discovery and Integration (UDDI) - UDDI provides a searchable registry of XML Web Services and their associated URLs and WSDL pages. http://www.uddi.org/about.html	JTA 6.0	Interface Information Processing	Data Interchange	Interoperable Intelligent Agents UDDI Version 3.0 Published Specification, 19 July 2002.	Emerging	Yes
Service Interface and Integration	Interoperability	Data Format / Classification	eXtensible Markup Language (XML) — XML has emerged as the standard format for web data, and is beginning to be used as a common data format at all levels of the architecture. Many specialized vocabularies of XML are being developed to support specific Government and Industry functions.	JTA 6.0	Information Processing	Data Interchange	Extensible Markup Language (XML) 1.0 (Second Edition), W3C Recommendation, 6 October 2000.	Mandatory	Yes
Service Interface and Integration	Interoperability	Data Format / Classification	XML Linking Language (XLINK) – A language used to modify XML documents to include links, similar to hyperlinks, between resources. XLINK provides richer XML content through advanced linking integration with information resources.	FEA TRM					
Service Interface and Integration	Interoperability	Data Format / Classification	Namespaces – Namespaces are qualified references to URI (Uniform Resource Identifier) resources within XML documents.	FEA TRM					
Service Interface and Integration	Interoperability	Data Format / Classification	Electronic Data Interchange (EDI) - Defines the structure for transferring data between enterprises. EDI is used mainly used for purchase-related information. ANSI X.12 refers to the approved EDI standards.	FEA TRM					
Service Interface and Integration	Interoperability	Data Types / Validation	Document Type Definition (DTD) – DTD is used to restrict and maintain the conformance of an XML, HTML, or SGML document. The DTD provides definitions for all tags and attributes within the document and the rules for their usage. Alterations to the document are validated with the referenced DTD.	JTA 6.0	Information Security	Intrusion Detection Systems	draft-iett-idwg-idmef-xml-06.txt, Data Model and Extensible Markup Language (XML) Document Type Definition, 18 September 2001.	Emerging	Yes
Service Interface and Integration	Interoperability	Data Types / Validation	XML Schema – XML Schemas define the structure, content, rules and vocabulary of an XML document. XML Schemas are useful in automation through embedding processing rules.	JTA 6.0	Information Processing	Data Interchange	XML Schema Part 1: Structures, W3C Recommendation, 2 May 2001.	Mandatory	Yes
Service Interface and Integration	Interoperability	Data Types / Validation	XML Schema – XML Schemas define the structure, content, rules and vocabulary of an XML document. XML Schemas are useful in automation through embedding processing rules.	JTA 6.0	Information Processing	Data Interchange	XML Schema Part 2: Datatypes, W3C Recommendation, 2 May 2001.	Mandatory	Yes
Service Interface and Integration	Interoperability	Data Types / Validation	XML Schema – XML Schemas define the structure, content, rules and vocabulary of an XML document. XML Schemas are useful in automation through embedding processing rules.	JTA 6.0	Information Processing	Data Interchange	Namespaces in XML, W3C Recommendation, 14 January 1999.	Mandatory	Yes
Service Interface and Integration	Interoperability	Data Types / Validation	eXtensible Stylesheet Language Transform (XSLT) - Transforms XML document from one schema into another. Used for data transformation between systems using different XML schema, or mapping XML to different output devices.		Information Processing	Data Interchange	Extensible Stylesheet Language (XSL), Version 1.0, W3C Recommendation, 15 October 2001.	Emerging	Yes
Service Interface and Integration	Interoperability	Data Types / Validation	eXtensible Stylesheet Language Transform (XSLT) - Transforms XML document from one schema into another. Used for data transformation between systems using different XML schema, or mapping XML to different output devices.	JTA 6.0	Information Processing	Data Interchange	XSL Transformations (XSLT), Version 1.1, W3C Working Draft, 24 August 2001.	Emerging	Yes

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	Formal
Service Platform and Infrastructure	Database / Storage	Database	Database 2 (DB2) – DB2 is a family of relational database products offered by IBM. DB2 provides an open database environment that runs on a wide variety of computing platforms.	FEA TRM					
Service Platform and Infrastructure	Database / Storage	Database	Oracle – Relational database product; the first to support the SQL language.	FEA TRM					
Service Platform and Infrastructure	Database / Storage	Database	SQL Server – Data management server product developed by Microsoft.	FEA TRM					
Service Platform and Infrastructure	Database / Storage	Database	Sybase – Data management and synchronization server products developed by Sybase.	FEA TRM					
Service Platform and Infrastructure	Database / Storage	Storage	Network-Attached Storage (NAS) – A NAS device is a server that is dedicated to nothing more than file sharing.	FEA TRM					
Service Platform and Infrastructure	Database / Storage	Storage	Storage Area Network (SAN) – A SAN is a high-speed sub-network of shared storage devices. A storage device is a machine that contains nothing but a disk or disks for storing data.						
Service Platform and Infrastructure	Delivery Servers	Application Servers		FEA TRM					
Service Platform and Infrastructure	Delivery Servers	Media Servers	Real Audio – streaming media server solution designed to supply desktop and mobile content.	FEA TRM					
Service Platform and Infrastructure	Delivery Servers	Media Servers	Windows Media Services – Part of Windows Server (2000 and .Net) optimized to deliver streaming media and dynamic digital content over intranet and internet delivery channels.	FEA TRM					
Service Platform and Infrastructure	Delivery Servers	Portal Servers		FEA TRM					
Service Platform and Infrastructure	Delivery Servers	Web Servers	Apache – A widely-used public domain, UNIX-based Web server from the Apache Group (www.apache.org). It is based on, and is a plug-in replacement for, NCSA's HTTPd server Version 1.3. The name came from a body of existing code and many "patch files."						
Service Platform and Infrastructure	Delivery Servers	Web Servers	Internet Information Server – Web server software from Microsoft that runs under Windows NT, Windows 2000, and Microsoft.Net. It supports Netscape's SSL security protocol and turns an NT-based PC into a Web site. Microsoft's Web browser, Internet Explorer, is also included.	FEA TRM					
Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Random Access Memory (RAM) — A type of computer memory that can be accessed randomly; that is, any byte of memory can be accessed without touching the preceding bytes. RAM is the most common type of memory found in computers and other devices, such as printers.	FEA TRM					
Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Hard Disk Drive – Refers to the area of a computer that where data is stored.	FEA TRM					
Service Platform and	Hardware / Infrastructure Hardware / Infrastructure	S,	Microprocessor - A silicon chip that contains a CPU. In the world of personal computers, the terms microprocessor and CPU are used interchangeably. A the heart of all personal computers and most workstations sits a microprocessor. Redundant Array of Independent Disks (RAID) – An	FEA TRM					
Infrastructure			assembly of disk drives that employ two or more drives in combination for fault tolerance and performance. RAID disk drives are used frequently on servers but aren't generally necessary for personal computers. RAID is generally configured as mirrored or striped. Mirrored RAID (Levels 0, 3, and 5) write data across multiple disk drives so that a single disk failure can be recovered from the data on the remaining drives. There are three (3) types of RAID systems: failure-resistant disk systems (that protect against loss of data access due to failure of any single component), and disaster-tolerant disk systems (that protect against for two or more independent zones, either of which provides access to stored data).						

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Service Platform and Infrastructure	Hardware / Infrastructure	Local Area Network	Ethernet - local-area network (LAN) architecture that uses a bus or star topology and supports data transfer rates of 10 Mbps. 100 Mbps. (past Ethernet) or 1 Gbps (gigabit Ethernet). The Ethernet specification served as the basis for the IEEE 802.3 standard, which specifies the physical and lower software layers. Ethernet uses the CSMA/CD access method to handle simultaneous demands. It is one of the most widely implemented LAN standards.		Information Transfer	Local Area Network Access	ISO/IEC 8802-3:2000 (IEEE Std. 802.3, 2000 Edition), Information technology, Information technology, Telecommunications and information exchange between systems – Local and metropolitan area networks – Specific requirements – Part 3: Carrier sense multiple access with collisis method and physical layer specifications, Clauses 21-30 for 100BaseT and Clause 14 for 10BaseT.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Local Area Network	Token Ring - A type of computer network in which all the computers are arranged (schematically) in a circle. A token, which is a special bit pattern, travels around the circle. To send a message, a computer catches the token, attaches a message to it, and then lets it continue to travel around the network.	FEA TRM					
Service Platform and Infrastructure	Hardware / Infrastructure	Local Area Network	Virtual LAN (VLAN) - Short for virtual LAN, a network of computers that behave as if they are connected to the same wire even though they may actually be physically located on different segments of a LAN. VLANs are configured through software rather than hardware, which make them extremely flexible. One of the biggest advantages of VLANs is that when a computer is physically moved to another location, it can stay on the same VLAN without any hardware reconfiguration.	FEA TRM					
Service Platform and Infrastructure	Hardware / Infrastructure	Local Area Network		JTA 6.0	Information Transfer	Gigabit Ethernet	ISO/IEC 8802-3:2000 (IEEE Std. 802.3, 2000 Edition), Information technology, Telecommunications and information exchange between systems – Local and metropolitan area networks – Specific requirements – Part 3: Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications, Clauses 36, 37 and 38 for fiber and Clause 40 for Category 5 copper.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Integrated Services Digital Network (ISDN) – ISDN is a system of digital phone connections which has been available for over a decade. This system allows data to be transmitted simultaneously across the world using end-to-end digital connectivity.	JTA 6.0	Information Transfer	Integrated Services Digital Network	ANSI T1.619-1992 (R1999), Multi-Level Precedence and Preemption (MLPP) Service, ISDN Supplementary Service Description, 1992 (Reaffirmed 1999). [SUNSET] This standard will be deleted when the GIG BE program provides full convergence of traffic (voice, video, data) on a single IP internetwork with differentiated management of quality of-service to ensure required levels of availability by application and function supported by high speed (at least 1 Gbps) network layer encryption as provided by High-Assurance Internet Protocol Encryptor (HAIPE).		Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Hub - A common connection point for devices in a network. Hubs are commonly used to connect segments of a LAN. A hub contains multiple ports. When a packet arrives at one port, it is copied to the other ports so that all segments of the LAN can see all packets.	FEA TRM			menet rotoco Enclyptol (INILE).		
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Switch - In networks, a device that filters and forwards packets between LAN segments. Switches operate at the data link layer (layer 2) and sometimes the network layer (layer 3) of the OSI Reference Model and therefore support any packet protocol. LANs that use switches to join segments are called switched LANs or, in the case of Ethernet networks, switched Ethernet LANs.						
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Router - A device or setup that finds the best route between any two networks, even if there are several networks to traverse. Like bridges, remote sites can be connected using routers over dedicated or switched lines to create WANs.	FEA TRM					
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Network Interface Card (NIC) - Often abbreviated as NIC, an expansion board you insert into a computer so the computer can be connected to a network. Most NICs are designed for a particular type of network, protocol, and media, although some can serve multiple networks.						

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name		ndatory merging	Formal
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Transceivers - Short for transmitter-receiver, a device that both transmits and receives analog or digital signals. The term is used most frequently to describe the component in local-area networks (LANs) that actually applies signals onto the network wire and detects signals passing through the wire. For many LANs, the transceiver is built into the network interface card (NIC). Some types of networks, however, require an external transceiver.	FEA TRM					
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Gateway - Gateways are points of entrance to and exit from a communications network. Viewed as a physical entity, a gateway is that node that translates between two otherwise incompatible networks or network segments.	FEA TRM					
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	T1/T3 - T1 service delivers 1.544 Mbps. Typically channelized into 24 DS0s, each capable of carrying a single voice conversation or data stream. The European T1 or E1 transmission rate is 2.048 Mbps. A T3 circuit communicates at 45 Mbps, or 28 T1 lines.	FEA TRM					
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	all types of digital subscriber lines, the two main categories being ADSL and SDSL. Two other types of xDSL technologies are High-data-rate DSL (HDSL) and Very high DSL (VDSL).	FEA TRM					
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Firewall — This refers to the network device that is designed to prevent unauthorized access to or from a private network. Firewalls can be implemented in both hardware and software, or a combination of both. Firewalls are frequently used to prevent unauthorized Internet users from accessing private networks connected to the Internet, especially intranets. There are several types of firewall techniques and firewalls may implement one or more simultaneously. Packet filtering inspects inbound and outbound packets, validating against defined business rules. Application, gateways apply security rules against applications. Circuit-level gateways apply security rules against physical connection attempts to and from the network. Proxy servers mask the internal requestor by inspecting and augmenting the packet header. Four common architectures of firewalls include the packet filtering router, the screened host firewall system, the dual homed host firewall, and the screened subnet firewall (with a DMZ), which is one of the most secure implementations.	FEA TRM					
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Integrated Services Digital Network (ISDN) – ISDN is a system of digital phone connections which has been available for over a decade. This system allows data to be transmitted simultaneously across the world using end-to-end digital connectivity.		Information Transfer	Integrated Services Digital Network	ANSI T1.619a-1994 (R1999), Supplement, 1994 (Reaffirmed 1999). [SUNSET] This standard will be deleted when the GIG BE program provides full convergence of traffic (voice, video, data) on a single IP internetwork with differentiated management of quality-of-service to ensure required levels of availability by application and function supported by high speed (at least 1 Gbps) network layer encryption as provided by HAIPE.	ŕ	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Integrated Services Digital Network (ISDN) – ISDN is a system of digital phone connections which has been available for over a decade. This system allows data to be transmitted simultaneously across the world using end-to-end digital connectivity.	JTA 6.0	Information Transfer	Integrated Services Digital Network	ANSI T1. 111- 2001, Signaling System No. 7, Message Transfer Part, 2001. [SUNSET] This standard will be deleted when the GIG BE program provides full convergence of traffic (voice, video, data) on a single IP internetwork with differentiated management of quality-of-service to ensure required levels of availability by application and function supported by high speed (at least 1 Gbps) network layer encryption as provided by HAIPE.	atory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Integrated Services Digital Network (ISDN) – ISDN is a system of digital phone connections which has been available for over a decade. This system allows data to be transmitted simultaneously across the world using end-to-end digital connectivity.	JTA 6.0	information Transfer	Integrated Services Digital Network	ANSI T1.112-2001, Telecommunications – Signaling System Number 7 (SS7) – Signaling Connection Control Part (SCCP), 2001. [SUNSET] This standard will be deleted when the GIG BE program provides full convergence of traffic (voice, video, data) on a single IP internetwork with differentiated management of quality-of-service to ensure required levels of availability by application and function supported by high speed (at least 1 Gbps) network layer encryption as provided by HAIPE.	atory	Yes

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	-
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Firewall – This refers to the network device that is designed to prevent unauthorized access to or from a private network. Firewalls can be implemented in both hardware and software, or a combination of both. Firewalls are frequently used to prevent unaut	JTA 6.0	Information Security	Firewall	U.S. Government Traffic Filter Firewall Protection Profile for Low Risk Environments, Version 1.1, April 1999.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	designed to prevent unauthorized access to or from a private network. Firewalls can be implemented in both hardware and software, or a combination of both. Firewalls are frequently used to prevent unaut	JTA 6.0	Information Security	Firewall	U.S. Department of Defense Application-level Firewall Protection Profile for Basic Robustness Environments, Version 1.0, June 2000.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Firewall — This refers to the network device that is designed to prevent unauthorized access to or from a private network. Firewalls can be implemented in both hardware and software, or a combination of both. Firewalls are frequently used to prevent unaut	JTA 6.0	Information Security	Firewall	U.S. Department of Defense Traffic Filter Firewall Protection Profile for Medium Robustness Environments, Version 1.4, 1 May 2000.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	designed to prevent unauthorized access to or from a private network. Firewalls can be implemented in both hardware and software, or a combination of both. Firewalls are frequently used to prevent unaut	JTA 6.0	Information Security	Firewall	U.S. Department of Defense Application-level Firewall Protection Profile for Medium Robustness Environments, Version 1.0, 28 June 2000.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Peripherals	Printer - Devices that print text or illustrations on paper. There are many different types of printers.	FEA TRM					
Service Platform and Infrastructure	Hardware / Infrastructure	Peripherals	Scanner - Devices that can read fext or illustrations printed on paper and translate the information into a form the computer can use. A scanner works by digitizing an image – dividing it into a grid of boxes and representing each box with either a zero or a one, depending on whether the box is filled in.	FEA TRM					
Service Platform and Infrastructure	Hardware / Infrastructure	Radio Communications		JTA 6.0	Information Transfer	Combat Net Radio Networking	MIL-STD-188-220C, Interoperability Standard for Digital Message Transfer Device (DMTD) Subsystems, 22 May 2002. [SUNSET] This standard will be deleted when JTRS WNW or equivalent waveform provides the same functionality.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Radio Communications		JTA 6.0	Information Transfer	Mobile Cellular	ITU-R M.1457-1, Detailed Specifications of the Radio Interfaces of IMT-2000, February 2001.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Radio Communications		JTA 6.0	Information Transfer	Radio Communications	MIL-STD-188-140A, Equipment Technical Design Standards for Common Long Haul/Tactical Radio Communications in the LF Band and Lower Frequency Bands. 1 May 1990.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Radio Communications		JTA 6.0	Information Transfer	Radio Communications	MIL-STD-188-141B, Interoperability and Performance Standards for Medium and High Frequency Radio Systems, 1 March 1999.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Radio Communications		JTA 6.0	Information Transfer	Radio Communications	MIL-STD-188-148A, Interoperability Standard for Anti-Jam Communications in the HF Band (2-30 Mhz), 18 March 1992.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Radio Communications		JTA 6.0	Information Transfer	Radio Communications	MIL-STD-188-110B, Interoperability and Performance Standards for Data Modems, 27 April 2000.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Radio Communications		JTA 6.0	Information Transfer	Radio Communications	MIL-STD-188-242, Tactical Single Channel (VHF) Radio Equipment, 20 June 1985. [SUNSET] This standard will be deleted when JTRS WNW or equivalent waveform provides the same functionality.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Radio Communications		JTA 6.0	Information Transfer	Radio Communications	MIL-STD-188-243, Tactical Single Channel (UHF) Radio Communications, 15 March 1989. [SUNSET] This standard will be deleted when JTRS WNW or equivalent waveform provides the same functionality.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Radio Communications		JTA 6.0	Information Transfer	Radio Communications	STANAG 4246, Edition 2, HAVE QUICK UHF Secure and Jam- Resistant Communications Equipment, 17 June 1987; with Amendment 3, August 1991. [SUNSET] This standard will be deleted when JTRS WNW or equivalent waveform provides the same functionality.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Radio Communications		JTA 6.0	Information Transfer	Radio Communications	MIL-STD-188-145, Digital Line-of-Sight (LOS) Microwave Radio Equipment, 7 May 1987; with Notice of Change 1, 28 July 1992. [SUNSET] This standard will be deleted when JTRS WNW or equivalent waveform provides the same functionality.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Radio Communications		JTA 6.0	Information Transfer	Radio Communications	(S) STANAG 4175, Edition 3, Technical Characteristics of the Multifunctional Information Distribution System (MIDS), 6 February 2001, (U). [SUNSET] This standard will be deleted when JTRS WNW or equivalent waveform provides the same functionality.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Radio Communications		JTA 6.0	Information Transfer	Radio Communications	MIL-STD-188-241, RF Interface Requirements for VHF Frequency Hopping Tactical Radio Systems.	Emerging	Yes

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Global Positioning System	ICD-GPS-200C, NAVSTAR GPS Space Segment/Navigation User Interfaces, 12 April 2000.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Global Positioning System	ICD-GPS-222A, NAVSTAR GPS UE Auxiliary Output Chip Interface (U), 26 April 1996.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Global Positioning System	ICD-GPS-225A, NAVSTAR GPS Selective Availability/Anti- spoofing Host Application Equipment Design Requirements with the Precise Positioning Service Security Module (U), 12 March 1998.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Global Positioning System	SS-GPS-001A, Navstar GPS Selective Availability/Anti- Spoofing Module System Specification, 27 Sep 99.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Military Satellite Communications	MIL-STD-188-181B, Interoperability Standard for Single Access 5-kHz and 25-kHz UHF Satellite Communications Channels, 20 March 1999, with Notice of Change 1, 16 October 2001. [SUNSET] This standard will be deleted when MUOS becomes operational.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Military Satellite Communications	MIL-STD-188-182A, Interoperability Standard for 5-kHz UHF DAMA Terminal Waveform, 31 March 1997, with Notice of Change 1, 9 September 1998; Notice of Change 2, 22 January 1999; and Notice of Change 3, 4 June 1999. [SUNSET] This standard will be deleted when MUOS becomes operational.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Military Satellite Communications	MillSTD-188-183A, Interoperability Standard for 25-kHz TDMA/DAMA Terminal Waveform (Including 5-kHz and 25-kHz Slave Channels), 20 March 1998; with Notice of Change 1, 9 September 1998; and Notice of Change 2, 4 June 1999. [SUNSET] This standard will be deleted when MUOS becomes operational.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Military Satellite Communications	MilSTD-188-184, Interoperability and Performance Standard for the Data Control Waveform, 20 August 1993, with Notice of Change 1, 9 September 1998. [SUNSET] This standard will be deleted when MUOS becomes operational.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Military Satellite Communications	MIL-STD-188-185, DoD Interface Standard, Interoperability of UHF MILSATCOM DAMA Control System, 29 May 1996, with Notice of Change 1, 1 December 1997; and Notice of Change 2, 9 September 1998. [SUNSET] This standard will be deleted when MUOS becomes	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Military Satellite Communications	operational. MIL-STD-188-164A, Interoperability of SHF Satellite Communications Earth Terminals, 15 April 2002.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Military Satellite Communications	MIL-STD-188-165A, Interoperability of SHF Satellite Communications PSK Modems (FDMA Operation), 15 April 2002.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Military Satellite Communications	MIL-STD-188-168, Interoperability Standard for SHF Satellite Communications Baseband Equipment, 3 October 2002.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Military Satellite Communications	MiL-STD-1582D, EHF LDR Uplinks and Downlinks, 30 September 1996; with Notice of Change 1, 14 February 1997; and Notice of Change 2, 17 February 1999. [SUNSET] This standard will be deleted when XDR and XDR+ become operational.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Military Satellite Communications	MIL-STD-188-136A, EHF MDR Uplinks and Downlinks, 8 June 1998; with Notice of Change 1, 1 July 1999, and Notice of Change 2, 30 October 2000. [SUNSET] This standard will be deleted when XDR and XDR+ become operational.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Military Satellite Communications	MIL-STD-188-182B, Interoperability and Performance Standard for UHF SATCOM DAMA Orderwire Messages and Protocols.		Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Military Satellite Communications	MIL-STD-188-183B, Interoperability and Performance Standard for Multiple Accessing 5-kHz and 25-kHz UHF SATCOM Channels.		Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Military Satellite Communications	MIL-STD-188-184A, Interoperability and Performance Standard for the Data Control Waveform.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Military Satellite Communications	MIL-STD-188-166, Interface Standard, Interoperability and Performance Standard for SHF SATCOM Link Control.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Military Satellite Communications	MIL-STD-188-167, Interface Standard, Message Format for SHF SATCOM Link Control.	Emerging	Yes

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Military Satellite Communications	MIL-STD-188-170, Interoperability and Performance Standard for SHF Satellite Communications Anti-Jamming Modems (This modem uses spread spectrum techniques to protect SHF SATCOM user communications and control links against enemy jamming).	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Satellite State-of- Health Communication Standards	CCSDS 401.0 – B-6, Radio Frequency and Modulation Systems – Part 1: Earth Stations and Spacecraft, May 2000, Consultative Committee for Space Data Systems.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Satellite State-of- Health Communication Standards	ISO 11754:1994, (CCSDS 101.0-B-4), Space Data and Information Transfer Systems – Telemetry Channel Coding.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Satellite State-of- Health Communication Standards	ISO 12171:1998, (CCSDS 201.0-B-2), Space Data and Information Transfer Systems – Telecommand – Channel Service – Architectural Specification.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Satellite State-of- Health Communication Standards	ISO 12172:1998, (CCSDS 202.0-B-2), Space Data and Information Transfer Systems – Telecommand – Data Routing Service.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Satellite State-of- Health Communication Standards	ISO 12173:1998, (CCSDS 202.1-B-1), Space Data and Information Transfer Systems – Telecommand – Command Operation Procedures.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Satellite State-of- Health Communication Standards	ISO 12174:1998, (CCSDS 203.0-B-1), Space Data and Information Transfer Systems – Telecommand – Data Management Service, Architectural Specification.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Satellite State-of- Health Communication Standards	ISO 13419:1997, (CCSDS 102.0-B-4), Space Data and Information Transfer Systems – Packet Telemetry.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Satellite State-of- Health Communication Standards	ISO 15396:1998 (CCSDS 910.4-B-1) Space Data and Information Transfer Systems – Cross Support Reference Model – Space Link Extension Services.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Satellite State-of- Health Communication Standards	CCSDS 910.5-R-2, Space Link Extension – Service Management Specification, September 2001.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Satellite State-of- Health Communication Standards	CCSDS 910.7-R-1, Space Link Extension – Service Management – Space Link Physical Layer Management Object Specification, October 2001.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Satellite State-of- Health Communication Standards	CCSDS 911.1-R-2, Space Link Extension – Return All Frames Service Specification, November 2000.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Satellite State-of- Health Communication Standards	CCSDS 911.2-R-1, Space Link Extension – Return Virtual Channel Frames Service Specification, November 1997.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Satellite State-of- Health Communication Standards	CCSDS 912.1-R-2, Space Link Extension – Forward CLTU Service Specification, May 2000.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Satellite Communications		JTA 6.0	Information Transfer	Satellite State-of- Health Communication Standards	CCSDS 912.3-R-1, Space Link Extension – Forward Packet Service Specification, November 1997.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	Enterprise Server – A computer or device on a network that manages network resources and shared applications for multiple users.	FEA TRM					
Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	Mainframe – A very large computer capable of supporting hundreds, or even thousands, of users simultaneously. Mainframes support simultaneous programs.	FEA TRM					
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing	Birdge - a bridge connects three or more conference sites so that they can simultaneously pass data, voice or video. Videoconferencing bridges are often called MCUs (multipoint conferencing units).	FEA TRM					
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing	CODEC - a video codec converts analog video signals from a video camera to digital signals for transmission over digital circuits, and then converts the digital signals back to analog signals for display.	FEA TRM					
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FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing	Receiver - An electronic device which enables a particular videoconference signal to be separated from all others being received by an earth station, and converts the signal format into a format for video, voice or data.						
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing		JTA 6.0	Information Transfer	Video Teleconferencing	ITU-T G.711, Pulse Code Modulation (PCM) of Voice Frequencies, November 1988.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing		JTA 6.0	Information Transfer	Video Teleconferencing	ITU-T G.728, Coding of Speech at 16 kbit/s Using Low-Delay Code Excited Linear Prediction, September 1992.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing		JTA 6.0	Information Transfer	Video Teleconferencing	ITU-T G.722, 7 kHz Audio-Coding Within 64 kbit/s, November 1988.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing		JTA 6.0	Information Transfer	Video Teleconferencing	TTU-T H.261, Video CODEC for Audiovisual Services at p x 64 kbit/s, March 1993. [SUNSET] This standard will be deleted when H.263/H.263+ and H.264 provide this service.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing		JTA 6.0	Information Transfer	Video Teleconferencing	ITU-T T.81, Information Technology – Digital Compression and Coding of Continuous-tone Still Images – Requirements and Guidelines, September 1992.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing		JTA 6.0	Information Transfer	Video Teleconferencing	ITU-T T.82, Information Technology – Coded Representation o Picture and Audio Information – Progressive Bi-level Image Compression, March 1993.	f Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing		JTA 6.0	Information Transfer	Video Teleconferencing	ITU-T T.122, Multipoint Communications Service – Service Definition, February 1998.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing		JTA 6.0	Information Transfer	Video Teleconferencing	ITU-T T.123, Network – Specific Data Protocol Stacks for Multimedia Conferencing, May 1999.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing		JTA 6.0	Information Transfer	Video Teleconferencing	ITU-T T.124, Generic Conference Control, February 1998.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing		JTA 6.0	Information Transfer	Video Teleconferencing	ITU-T T.125, Multipoint Communications Service Protocol Specification, February 1998.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing		JTA 6.0	Information Transfer	Video Teleconferencing	ITU-T T.126, Multipoint Still Image and Annotation Protocol, July 1997.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing		JTA 6.0	Information Transfer	Video Teleconferencing	ITU-T T.127, Multipoint Binary File Transfer Protocol, August 1995.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing		JTA 6.0	Information Transfer	Video Teleconferencing	ITU-T T.128, Multipoint Application Sharing, February 1998.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing		JTA 6.0	Information Transfer	Video Teleconferencing	ITU-T H.225.0, Call Signaling Protocols and Media Stream Packetization for Packet-Based Multimedia Communications Systems, February 1998.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing		JTA 6.0	Information Transfer	Video Teleconferencing	ITU-T H.245, Control Protocol for Multimedia Communications, February 1998.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing		JTA 6.0	Information Transfer	Video Teleconferencing	TTU-T H.323, Packet-based Multimedia Communications Systems, November 2000. This standard has the most industry support for VTC over ATM.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing		JTA 6.0	Information Transfer	Video Teleconferencing	ITU-T H.248, Gateway Control Protocol, June 2000.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing		JTA 6.0	Information Transfer	Video Teleconferencing	IETF RFC 3435, Media Gateway Control Protocol (MGCP) Version 1.0, January 2003.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing		JTA 6.0	Information Transfer	Video Teleconferencing	IETF RFC 3261, Session Initiation Protocol (SIP), June 2002.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing		JTA 6.0	Information Transfer	Video Teleconferencing	ITU-T H.264/ISO/IEC FCD 14496-10, Advanced Video Coding, July 2002.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Voice Communications		JTA 6.0	Information Transfer	Voice Over IP	ITU-T Recommendation H.323, Packet-Based Multimedia Communications Systems (Version 2), February 1998.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Voice Communications		JTA 6.0	Information Transfer	Voice Over IP	IETF RFC 3261, Session Initiation Protocol, June 2002.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Voice Communications		JTA 6.0	Information Transfer	Voice Over IP	IETF RFC 3015, Megaco Protocol Version 1.0, November 2000.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Voice Communications		JTA 6.0	Information Transfer	Voice Over IP	IETF RFC 1889, RTP: A Transport Protocol for Real-Time Applications, January 1996.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	information Transfer	Asynchronous Transfer Mode	ATM Forum, af-phy-0015.000, ATM Physical Medium Dependent Interface for 155 Mbps over Twisted Pair Cable, September 1994. [SUNSET] This standard will be deleted when the GIG BE program provides full convergence of traffic (voice, video, data) on a single IP internetwork with differentiated management of quality-of-service to ensure required levels of availability by application and function supported by high speed (at least 1 Gbps) network layer encryption as provided by HAIPE.		Yes

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	Information Transfer	Asynchronous Transfer Mode	ATM Forum, af-phy-0016.000, DS1 Physical Layer Specification, September 1994. [SUNSET] This standard will be deleted when the GIG BE program provides full convergence of traffic (voice, video, data) on a single IP internetwork with differentiated management of quality-of-service to ensure required levels of availability by application and function supported by high speed (at least 1 Gbps) network layer encryption as provided by HAIPE.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	Information Transfer	Asynchronous Transfer Mode	ATM Forum, af-phy-0054.000, DS3 Physical Layer Interface Specification, January 1996. [SUNSET] This standard will be deleted when the GIG BE program provides full convergence of traffic (voice, video, data) on a single IP internetwork with differentiated management of quality-of-service to ensure required levels of availability by application and function supported by high speed (at least 1 Gbps) network layer encryption as provided by HAIPE.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	Information Transfer	Asynchronous Transfer Mode	ATM Forum, af-phy-0054.000, DS3 Physical Layer Interface Specification, January 1996. [SUNSET] This standard will be deleted when the GIG BE program provides full convergence of traffic (voice, video, data) on a single IP internetwork with differentiated management of quality-of-service to ensure required levels of availability by application and function supported by high speed (at least 1 Gbps) network layer encryption as provided by HAIPE.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	Information Transfer	Asynchronous Transfer Mode	ATM Forum, at-phy-0064.000, E1 Physical Interface Specification, September 1996. [SUNSET] This standard will be deleted when the GIG BE program provides full convergence of traffic (voice, video, data) on a single IP internetwork with differentiated management of quality-of-service to ensure required levels of availability by application and function supported by high speed (at least 1 Gbps) network layer encryption as provided by HAIPE.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	Information Transfer	Asynchronous Transfer Mode	ATM Forum, af-phy-0043.000, A Cell-based Transmission Convergence Sublayer for Clear Channel Interfaces, November 1995. [SUNSET] This standard will be deleted when the GIG BE program provides full convergence of traffic (voice, video, data) on a single IP internetwork with differentiated management of quality-of-service to ensure required levels of availability by application and function supported by high speec (at least 1 Gbps) network layer encryption as provided by HAIPE.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	Information Transfer	Asynchronous Transfer Mode	ATM Forum, af-phy-0086.000, Inverse Multiplexing for ATM (IMA) Specification Version 1.0 July 1997. [SUNSET] This standard will be deleted when the GIG BE program provides full convergence of traffic (voice, video, data) on a single IP internetwork with differentiated management of quality-of-service to ensure required levels of availability by application and function supported by high speed (at least 1 Gbps) network layer encryption as provided by HAIPE.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	Information Transfer	Asynchronous Transfer Mode	ATM Forum, af-sig-0061.000, ATM UNI Signaling Specification Version 4.0, July 1996. [SUNSET] This standard will be deleted when the GIG BE program provides full convergence of traffic (voice, video, data) on a single IP internetwork with differentiated management of quality-of-service to ensure required levels of availability by application and function supported by high speed (at least 1 Gbps) network layer encryption as provided by HAIPE.	, Mandatory	Yes

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	Information Transfer	Asynchronous Transfer Mode	ATM Forum, af-ilmi-0065.000, Integrated Local Management Interface (ILMI) Specification, Version 4.0, September 1996. [SUNSET] This standard will be deleted when the GIG BE program provides full convergence of traffic (voice, video, data) on a single IP internetwork with differentiated management of quality-of-service to ensure required levels of availability by application and function supported by high speed (at least 1 Gbps) network layer encryption as provided by HAIPE.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	information Transfer	Asynchronous Transfer Mode	ATM Forum, at-vioa-0078.000, Circuit Emulation Service Interoperability Specification, Version 2.0, January 1997. [SUNSET] This standard will be deleted when the GIG BE program provides full convergence of traffic (voice, video, data) on a single IP internetwork with differentiated management of quality-of-service to ensure required levels of availability by application and function supported by high speed (at least 1 Gbps) network layer encryption as provided by HAIPE.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	information Transfer	Asynchronous Transfer Mode	Tru-T1.363.1, B-ISDN ATM Adaptation Layer Specification: Type 1 ATM Adaptation Layer (AAL1), August 1996, [SUNSET] This standard will be deleted when the GIG BE program provides full convergence of traffic (voice, video, data) on a single IP internetwork with differentiated management of quality-of-service to ensure required levels of availability by application and function supported by high speed (at least 1 Gbps) network layer encryption as provided by HAIPE.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	Information Transfer	Asynchronous Transfer Mode	ITU-T 1.363.5, B-ISDN ATM Adaptation Layer Specification: Type 5 ATM Adaptation Layer (AALS), August 1996, [SUNSET] This standard will be deleted when the GIG BE program provides full convergence of traffic (voice, video, data) on a single IP internetwork with differentiated management of quality-of-service to ensure required levels of availability by application and function supported by high speed (at least 1 Gbps) network layer encryption as provided by HAIPE.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	Information Transfer	Asynchronous Transfer Mode	ATM Forum, af-pnni-0055.000, Private Network to Network Interface (PNNI) Specification, Version 1.0, March 1996. [SUNSET] This standard will be deleted when the GIG BE program provides full convergence of traffic (voice, video, data) on a single IP internetwork with differentiated management of quality-of-service to ensure required levels of availability by application and function supported by high speed (at least 1 Gbps) network layer encryption as provided by HAIPE.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	Information Transfer	Asynchronous Transfer Mode	ATM Forum, af-pnni-0066.000, PNNI Specification, Version 1.0 Addendum (Soft PVC MIB), September 1996. [SUNSET] This standard will be deleted when the GIG BE program provides full convergence of traffic (voice, video, data) on a single IP internetwork with differentiated management of quality-of-service to ensure required levels of availability by application and function supported by high speed (at least 1 Gbps) network layer encryption as provided by HAIPE.		Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	Information Transfer	Asynchronous Transfer Mode	DoD ATM Addressing Plan, 17 April 1998. [SUNSET] This standard will be deleted when the GIG BE program provides full convergence of traffic (voice, video, data) on a single IP internetwork with differentiated management of quality-of-service to ensure required levels of availability by application and function supported by high speed (at least 1 Gbps) network layer encryption as provided by HAIPE.	Mandatory	Yes

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	Information Transfer	Asynchronous Transfer Mode	ATM Forum, af-aic-0178.000, ATM-Multiprotocol Label Switching (MPLS) Network Interworking Version 1.0, August 2001.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	Information Transfer	Asynchronous Transfer Mode	ATM Forum, af-tm-0121.000, Traffic Management Specification Version 4.1, March 1999.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	Information Transfer	Asynchronous Transfer Mode	ATM Forum, af-sig-0076.000, Addendum to UNI Signalling V4.0 for ABR parameter negotiation, January 1997.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	Information Transfer	Asynchronous Transfer Mode	ATM Forum, af-mpoa-0114.000, Multi-Protocol Over ATM Version 1.1, May 1999.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	Information Transfer	Asynchronous Transfer Mode	ATM Forum, af-vtoa-0113.000, ATM Trunking Using AAL2 for Narrowband Services, February 1999.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	Information Transfer	Asynchronous Transfer Mode	ATM Forum, af-phy-0086.001, Inverse Multiplexing for ATM (IMA) Specification Version 1.1, March 1999.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as 'cell relay").	JTA 6.0	Information Transfer	Asynchronous Transfer Mode	ATM Forum, af-saa-0124.000, Gateway for H.323 Media Transport Over ATM, July 1999.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as 'cell relay").	JTA 6.0	Information Transfer	Asynchronous Transfer Mode	ATM Forum, af-vtoa-0119.000, Low Speed Circuit Emulation Service (LSCES), May 1999.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	Information Transfer	Asynchronous Transfer Mode	ATM Forum, af-lane-0112.000, LAN Emulation Over ATM Version 2 – LNNI Specification, February 1999.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	Information Transfer	Asynchronous Transfer Mode	ATM Forum, af-ra-0123.000, PNNI Addendum for Mobility Extensions, Version 1.0, May 1999.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	Information Transfer	Asynchronous Transfer Mode	ATM Forum, af-sec-0096.000, ATM Security Framework Specification Version 1.0, February 1998.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as 'cell relay").	JTA 6.0	Information Transfer	Asynchronous Transfer Mode	TIA/EIA/IS-787, Common ATM Satellite Interface Interoperability Specification (CASI), July 1999.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").	JTA 6.0	Information Transfer	Data Communications Management	IETF RFC 2515, Definitions of Managed Objects for ATM Management, February 1999.	Emerging	Yes

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	Formal
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").		Information Security	Link Layer	ATM Forum, af-sec-0096.000, ATM Security Framework Version 1.0, February 1998.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Asynchronous Transfer Mode (ATM) - A high bandwidth, high speed, controlled-delay, fixed-size packet switching and transmission system integrating multiple data types (voice, video, and data). Uses fixed-size packets also known as "cells" (ATM is often referred to as "cell relay").		Information Security	Link Layer	ATM Forum, af-sec-0100.002, ATM Security Specification Version 1.1, March 2001.	Emerging	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network	Frame Relay - packet-switching protocol for connecting devices on a Wide Area Network (WAN). Frame Relay networks in the U.S. support data transfer rates at T-1 (1.544 Mbps) and T-3 (45 Mbps) speeds.	FEA TRM					
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network		JTA 6.0	Information Transfer	Synchronous Optica Network Transmission	ANSI T1.105-1995, Telecommunications – Synchronous Optical Network (SONET) Basic Description Including Multiplex Structure, Rates and Formats ((Revision and Consolidation of ANSI T1.105-1991 and ANSI T1.105A-1991).	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network		JTA 6.0	Information Transfer	Network	ANSI T1.107-1995, Digital Hierarchy – Formats Specifications.	Mandatory	Yes
Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network		JTA 6.0	Information Transfer	Transmission Synchronous Optica Network Transmission	ANSI T1.117-1991, (R1997), Digital Hierarchy – Optical Interface Specifications (Single Mode-Short Reach), (Reaffirmed 1997).	Mandatory	Yes
Service Platform and Infrastructure	Network Operations	Network Management		JTA 6.0	Information Transfer	Data Communications Management	IETF Standard 16/RFC 1155/RFC 1212, Structure of Management Information, May 1990.	Mandatory	Yes
Service Platform and Infrastructure	Network Operations	Network Management		JTA 6.0	Information Transfer	Data Communications Management	IETF Standard 17/RFC 1213, Management Information Base, March 1991.	Mandatory	Yes
Service Platform and Infrastructure	Network Operations	Network Management		JTA 6.0	Information Transfer	Data Communications Management	IETF RFC 2790, Host Resources MIB, March 2000.	Mandatory	Yes
Service Platform and Infrastructure	Network Operations	Network Management		JTA 6.0	Information Transfer	Data Communications Management	IETF Standard 50/RFC 1643, Definitions of Managed Objects for the Ethernet-like Interface Types, July 1994.	Mandatory	Yes
Service Platform and Infrastructure	Network Operations	Network Management		JTA 6.0	Information Transfer	Data Communications Management	IETF Standard 59/RFC 2819, Remote Network Monitoring Management Information Base, May 2000.	Mandatory	Yes
Service Platform and Infrastructure	Network Operations	Network Management		JTA 6.0	Information Transfer	Data Communications Management	IETF RFC 1850, Open Shortest Path First (OSPF) Version 2 Management Information Base, November 1995.	Mandatory	Yes
Service Platform and Infrastructure	Network Operations	Network Management		JTA 6.0	Information Transfer	Data Communications Management	IETF RFC 1471, Definitions of Managed Objects for the Link Control Protocol of the Point-to-Point Protocol, June 1993.	Emerging	Yes
Service Platform and Infrastructure	Network Operations	Network Management		JTA 6.0	Information Transfer	Data Communications Management	IETF RFC 1472, Definitions of Managed Objects for the Security Protocol of the Point-to-Point Protocol, June 1993.	Emerging	Yes
Service Platform and Infrastructure	Network Operations	Network Management		JTA 6.0	Information Transfer	Data Communications Management		Emerging	Yes
Service Platform and Infrastructure	Network Operations	Network Management		JTA 6.0	Information Transfer	Data Communications Management	IETF RFC 1474, Definitions of Managed Objects for the Bridge Network Control Protocol of the Point-to-Point Protocol, June 1993.	Emerging	Yes
Service Platform and Infrastructure	Network Operations	Network Management		JTA 6.0	Information Transfer	Data Communications Management	IETF RFC 2006, Definitions of Managed Objects for IP Mobility Support using SMIv2, October 1996.	Emerging	Yes
Service Platform and Infrastructure	Network Operations	Network Management		JTA 6.0	Information Transfer	Data Communications Management	IETF RFC 2021, Remote Network Monitoring Management Information Base Version 2 using SMIv2, January 1997.	Emerging	Yes
Service Platform and Infrastructure	Network Operations	Network Management		JTA 6.0	Information Transfer	Data Communications Management	IETF RFC 2788, Network Services Monitoring MIB, March 2000.	Emerging	Yes
Service Platform and Infrastructure	Network Operations	Network Management		JTA 6.0	Information Transfer	Data Communications Management	IETF RFC 2789, Mail Monitoring MIB, March 2000.	Emerging	Yes
Service Platform and Infrastructure	Network Operations	Network Management		JTA 6.0	Information Transfer	Network Time Synchronization	IETF RFC 1305, Network Time Protocol (Version 3) Specification, Implementation, and Analysis, March 1992.	Mandatory	Yes
Service Platform and Infrastructure	Network Operations	Network Management		JTA 6.0	Information Transfer	Telecommunications Management		Mandatory	Yes

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Service Platform and Infrastructure	Network Operations	Network Management		JTA 6.0	Information Transfer	Telecommunications Management	ANSI T1.208 -1997, OAM&P – Upper Layer Protocols for TMN Interfaces Between Operations Systems and Network Elements, 1997. [SUNSET] This standard will be deleted when WIN-T program provides this service.	Mandatory	Yes
Service Platform and Infrastructure	Network Operations	Network Management		JTA 6.0	Information Transfer	Telecommunications Management	ITU-T M.3400, TMN Management Functions, February 2000. [SUNSET] This standard will be deleted when WIN-T program provides this service.	Mandatory	Yes
Service Platform and Infrastructure	Network Operations	Service Level Management		NCOW 1.0	Policy	Policy	Common Open Policy Service	Emerging	No
Service Platform and Infrastructure	Network Operations	Service Level Management		JTA 6.0	Information Transfer	Quality of Service	IETF RFC 2205, Resource ReSerVation Protocol RSVP Version 1 Functional Specification, September 1997.	Emerging	Yes
Service Platform and	Network Operations	Service Level Management		NCOW 1.0	Policy	Quality of Service	Service Level Agreement	Emerging	No
Service Platform and Infrastructure	Network Operations	Service Level Management		NCOW 1.0	Policy	Quality of Service	Quality of Service	Emerging	No
Service Platform and Infrastructure	Network Operations	Service Level Management		NCOW 1.0	Policy	Quality of Service	Class of Service	Emerging	No
Inflastructure Infrastructure	Network Operations	Service Level Management		JTA 6.0	Information Transfer	Network Quality of Service	Class of Cervice TIU-T P.800, Methods for Subjective Determination of Transmission, August 1996. SUNSET] This standard will be deleted when the WIN-T program selects standards that are consistent with DoD vision for network-centric operations warfare.	Mandatory	Yes
Service Platform and Infrastructure	Network Operations	Service Level Management		JTA 6.0	Information Transfer	Network Quality of Service	TiTU-T P.862, Perceptual Evaluation of Speech Quality (PESQ), an Objective Method for End-to-End Speech Quality Assessment of Narrowband Telephone Networks and Speech Codecs, February 2002. [SUNSET] This standard will be deleted when the WINT-program selects standards that are consistent with DoD vision for network-centric operations warfare.	Mandatory	Yes
Service Platform and Infrastructure	Network Operations	Service Level Management		JTA 6.0	Information Transfer	Network Quality of Service	IETF RFC 2205, Resource ReSerVation Protocol (RSVP) – Version 1 Functional Specification, September 1997.	Emerging	Yes
Service Platform and Infrastructure	Network Operations	Service Level Management		JTA 6.0	Information Transfer	Network Quality of Service	IETF RFC 2207, RSVP Extensions for IPSEC Data Flows, September 1997.	Emerging	Yes
Service Platform and	Network Operations	Service Level Management		JTA 6.0	Information Transfer	Network Quality of Service	IETF RFC 2210, The Use of RSVP with IETF Integrated Services, September 1997.	Emerging	Yes
Service Platform and Infrastructure	Network Operations	Service Level Management		JTA 6.0	Information Transfer	Network Quality of Service	IETF RFC 2380, RSVP over ATM Implementation Requirements, August 1998.	Emerging	Yes
Service Platform and Infrastructure	Network Operations	Service Level Management		JTA 6.0	Information Transfer	Network Quality of Service		Emerging	Yes
Service Platform and Infrastructure	Network Operations	Service Level Management		JTA 6.0	Information Transfer	Network Quality of Service	IETF RFC 3031, Multi-protocol Label Switching Architecture, January 2001.	Emerging	Yes
Service Platform and	Network Operations	Service Level Management		JTA 6.0	Information Transfer	Network Quality of	JETF RFC 3168, The Addition of Explicit Congestion Notification (ECN) to IP, September 2001.	Emerging	Yes
Infrastructure Service Platform and	Network Operations	Service Level Management		JTA 6.0	Information Transfer	Service Network Quality of	IETF RFC 3175, Aggregation of RSVP for IPv4 and IPv6	Emerging	Yes
Infrastructure Service Platform and Infrastructure	Network Operations	Service Level Management		JTA 6.0	Information Transfer	Service Network Quality of Service	Reservations, September 2001. IEEE 802.10;1998, IEEE Standard for Local and Metropolitan Area Networks: Virtual Bridge Local Area Networks.	Emerging	Yes
Service Platform and Infrastructure	Network Operations	Service Level Management		JTA 6.0	Information Transfer	Network Quality of Service	Local Area Networks. ISO/IEC 15802-3:1998, Information technology – Telecommunications and information exchange between systems – Local and metropolitan area networks – Common specifications – Part 3: Media Access Control (MAC) Bridges.	Emerging	Yes
Service Platform and Infrastructure	Network Operations	System Management		JTA 6.0	Information Processing	System Management	Common Information Model (CIM) Version 2.2, Distributed Management Task Force, Inc., 14 June 1999.	Emerging	Yes
Service Platform and Infrastructure	Network Operations	System Management		JTA 6.0	Information Processing	System Management	Common Information Model (CIM) Schema Version 2.5, Distributed Management Task Force, Inc., 12 June 2001.	Emerging	Yes
Service Platform and Infrastructure	Network Operations	System Management		JTA 6.0	Information Processing	System Management	Desktop Management Interface V2.0s Specification, Distributed Management Task Force, Inc., 24 June 1998.	Emerging	Yes
Service Platform and Infrastructure	Network Operations	System Management		JTA 6.0	Information Processing	System Management	Specification for the Representation of CIM in XML Version 2.0, Distributed Management Task Force, Inc., 20 July 1999.	Emerging	Yes
Service Platform and Infrastructure	Network Operations	System Management		JTA 6.0	Information Processing	System Management	IETF RFC 3060, Policy Core Information Model 6 Version 1 Specification, Internet Engineering Task Force, February 2000.	Emerging	Yes
Service Platform and Infrastructure	Network Operations	System Management		JTA 6.0	Information Processing	System Management	Specification for CIM Operations over HTTP Version 1.0, Distributed Management Task Force, Inc., 11 August 1999.	Emerging	Yes

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Service Platform and Infrastructure	Software Engineering	Integrated Development Environment	WebSphere Studio – Integrated Java (J2EE) environment for programmers building Java, web, and web services applications. Successor to IBM Visual Age.						
Service Platform and Infrastructure	Software Engineering	Integrated Development Environment	Visual Studio – A complete development system providing the tools for analyzing and modeling all aspects of an application before a single component is built so that developers can design efficient architectures and reduce time to market. Developers can choose the programming language they know best and the language that is best suited to the solution, including Microsoft Visual Basic, Visual C++, Visual J++, and Visual FoxPro. Visual Studio is used to build scalable, data-driven Web sites and applications.						
Service Platform and Infrastructure	Software Engineering	Integrated Development Environment	Visual Studio.Net – A comprehensive tool set for rapidly building and integrating XML Web services, Microsoft Windows–based applications, and Web solutions. This is the successor to Visual Studio.	FEA TRM					
Service Platform and Infrastructure	Software Engineering	Modeling	Unified Modeling Language (UML) – A general- purpose notational language for specifying and visualizing complex software, especially large, object- oriented projects.	JTA 6.0	Information Modeling, Metadata, and Information Exchange	Object Model	Object Management Group (OMG) Unified Modeling Language (UML) Specification, Version 1.4, September 2001.	Mandatory	Yes
Service Platform and Infrastructure	Software Engineering	Modeling	Case Management - Computer Aided Software Engineering (CASE) software that provides a development environment for programming teams. CASE systems offer tools to automate, manage and simplify the development process.	FEA TRM					
Service Platform and Infrastructure	Software Engineering	Modeling		JTA 6.0	Information Modeling, Metadata, and Information Exchange	Activity Model	IEEE 1320.1:1998, IEEE Standard for Functional Modeling Language-Syntax and Semantics for IDEFO. [SUNSET] This standard will be deleted when version 2.0 of the DoD Architecture Framework is released.	Mandatory	Yes
Service Platform and Infrastructure	Software Engineering	Modeling		JTA 6.0	Information Modeling, Metadata, and Information Exchange	Data Model	FIPS PUB 184, Integration Definition for Information Modeling (IDEF1X), December 1993.	Mandatory	Yes
Service Platform and Infrastructure	Software Engineering	Modeling		JTA 6.0	Information Modeling, Metadata, and Information Exchange	Data Model	IEEE 1320.2:1998, IEEE Standard Conceptual Modeling Language-Syntax and Semantics for IDEF1X97 (IDEF object).	Emerging	Yes
Service Platform and Infrastructure	Software Engineering	Modeling		JTA 6.0	Information Modeling, Metadata, and Information Exchange	DoD Data Architecture	ISO/IEC 11179, Part 3 (DRAFT), Basic attributes of data elements, 19 October 2001.	Emerging	Yes
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Version Management – Refers to tracking and controlling versions of files. Version Management includes capabilities such as labeling, branching, merging, version content comparisons, and security and permission management across version-controlled projects.	FEA TRM					
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Defect Tracking – Refers to the identification, assignment, and management of discovered defects within an application, product or solution. Defect tracking tools provide searchable defect data to identify urgent and related defects or bugs. The architecture should be built to facilitate the pushing of software patches across the enterprise.	FEA TRM					
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Issue Management – Refers to the management of business, technical, and infrastructure issues throughout the entire lifecycle of a project.	FEA TRM					
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Task Management – Requirements, testing, and issues assignments are transformed into prioritized tasks. Task Management tools provide automation features for managing, delivering, assigning, reminding, and collaborating task management and execution.	FEA TRM					
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Change Management – Refers to the management of application code and content changes across the software development lifecycles.						
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Deployment Management – Refers to the capability of software delivery to remote networked desktops, servers, and mobile devices across an enterprise. Deployment automation tools provide centralized and accelerated delivery of applications to users via push technologies, eliminating the need for manual installation and configuration.						

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Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Requirements Management and Traceability – Consists of information discovery, capture, storage and dissemination. Requirements management reduces software development costs and associated risks through documenting, measuring, and analyzing deviations to project requirements. Traceability refers to tracking requirements artifacts to their source, and changes in requirements to include the impact analysis of the change. Requirements traceability is an integral component in quality software implementation and the management of document succession.	FEA TRM					
Service Platform and Infrastructure	Software Engineering	Test Management	Functional Testing – This type of test focuses on any requirements that can be traced directly to use cases (or business functions), business rules, and design.	FEA TRM					
Service Platform and Infrastructure	Software Engineering	Test Management	Business Cycle Testing – Refers to the emulation of activities performed over a period of time that is relevant to the application under test.	FEA TRM					
Service Platform and Infrastructure	Software Engineering	Test Management	Usability Testing (508 Testing) – Refers to a test to ensure that the application navigation, functionality, and GUI allow a user to effectively and efficiently do their work in a way that they are satisfied with the application.	FEA TRM					
Service Platform and Infrastructure	Software Engineering	Test Management	Performance Profiling – Refers to a performance test that measures and evaluates response times and transaction rates.	FEA TRM					
Service Platform and Infrastructure	Software Engineering	Test Management	Load/Stress/Volume Testing – Refers to tests that measure and evaluate how a system performs and functions under varying workloads, large amounts of data and/or resource utilization.	FEA TRM					
Service Platform and Infrastructure	Software Engineering	Test Management	Security and Access Control Testing – Focuses on the technical, administrative and physical security controls that have been designed into the system architecture in order to provide confidentiality, integrity and availability.	FEA TRM					
Service Platform and Infrastructure	Software Engineering	Test Management	Reliability Testing – Refers to the verification that failover methods are invoked properly and the system recovers properly.	FEA TRM					
Service Platform and Infrastructure	Software Engineering	Test Management	Configuration Testing – Refers to a test to ensure that the application or system can handle all hardware and software variables and requirements that have been defined.	FEA TRM					
Service Platform and Infrastructure	Software Engineering	Test Management	Installation Testing – Refers to the verification that the software installation process works properly in different environments and among varying conditions.	FEA TRM					
Service Platform and Infrastructure	Supporting Platforms	Platform Dependent	Windows 2000 - Also known as "Win2K" and "W2K," it is a major upgrade to Windows NT 4. Launched in February 2000, Windows 2000 comes in one client and three server versions. Windows 2000 looks like Windows 95/98, but adds considerably more features, dialogs and options.	FEA TRM					
Service Platform and Infrastructure	Supporting Platforms	Platform Dependent	Windows.Net - Microsoft's .Net and Sun's J2EE are the two dominant distributed computing architecture frameworks. Net supports a wide range of languages but is primarily tied to the Microsoft Windows operating system and Intel hardware.	FEA TRM					
Service Platform and Infrastructure	Supporting Platforms	Platform Dependent	Mac OS X – Mac OS X is Apple's UNIX based operating system based on industry standards. Launched in March 2001, OS X has advanced built-in security functions and complete interoperability with both internet standards and Microsoft products.	FEA TRM					
Service Platform and Infrastructure	Supporting Platforms	Platform Independent	Linux - Linux is an open source operating system that runs on multiple hardware platforms. With the ability to run on many platforms, including the PC and Macintosh, Linux has become an alternative to proprietary systems.		Information Processing	Operating System	Linux Standard Base Specification 1.2, Free Standards Group, 2002.	Mandatory	Yes
Service Platform and Infrastructure	Supporting Platforms	Platform Independent	Java 2 Platform Enterprise Edition (J2EE) - Sun's J2EE and Microsoff's .Net are the two dominant distributed computing architecture frameworks. J2EE provides portability of a single language (Java) over multiple operating systems and hardware platforms.	FEA TRM					
Service Platform and Infrastructure	Supporting Platforms	Platform Independent		BEA TV Page 109 of 110	Software Engineering	Common Operating Environment	Defense Information Infrastructure (DII) Common Operating Environment (COE), Integration and Runtime Specification (I&RTS), Version 4.1, 3 October 2000.	Mandatory	Yes 7 PM9/13/20

FEA Core Service Area	FEA Service Category	FEA Service Standard	FEA Service Specification	DoD Source	DoD Sub-Domain	DoD Service Name	DoD Standard Name	Mandatory or Emerging	
Service Platform and Infrastructure	Supporting Platforms	Platform Independent	Linux - Linux is an open source operating system that runs on multiple hardware platforms. With the ability to run on many platforms, including the PC and Macintosh, Linux has become an alternative to proprietary systems.	JTA 6.0	Information Processing	Operating System	Linux Standard Base Specification for the IA32 Architecture 1.2, Free Standards Group, 2002.	Mandatory	Yes
Service Platform and Infrastructure	Supporting Platforms	Platform Independent	Linux - Linux is an open source operating system that runs on multiple hardware platforms. With the ability to run on many platforms, including the PC and Macintosh, Linux has become an alternative to proprietary systems.	JTA 6.0	Information Processing	Operating System	Linux Standard Base Specification for the PPC32 Architecture 1.2, Free Standards Group, 2002.	Mandatory	Yes
Service Platform and Infrastructure	Supporting Platforms	Platform Independent		JTA 6.0	Information Processing	Operating System	ISO/IEC 9945-1:1996, Information technology – Portable Operating System Interface (POSIX) – Part 1: System Application Program Interface (API) [C language] (Mandated Services).	Mandatory	Yes
Service Platform and Infrastructure	Supporting Platforms	Platform Independent		JTA 6.0	Information Processing	Operating System	ISO/IEC 9945-1:1996, (Real-time Extensions) to ISO/IEC 9945- 1:1996, Information technology — Portable Operating System Interface (POSIX) — Part 1: System Application Program Interface (API) [C language] (Real-time Optional Services).	- Mandatory	Yes
Service Platform and Infrastructure	Supporting Platforms	Platform Independent		JTA 6.0	Information Processing	Operating System	ISO/IEC 9945-1:1996, (Thread Extensions) to ISO/IEC 9945- 1:1996, Information technology – Portable Operating System Interface (POSIX) – Part 1: System Application Program Interface (API) [C language] (Thread Optional Services).	Mandatory	Yes
Service Platform and Infrastructure	Supporting Platforms	Platform Independent		JTA 6.0	Information Processing	Operating System	ISO/IEC 9945-2:1993, Information technology – Portable Operating System Interface (POSIX) – Part 2: Shell and Utilities.	Mandatory	Yes
Service Platform and Infrastructure	Supporting Platforms	Platform Independent		JTA 6.0	Information Processing	Operating System	IEEE 1003.2d:1994, IEEE Standard for Information Technology – Portable Operating System Interface (POSIX) – Part 2: Shell and Utilities – Amendment 1: Batch Environment.	Mandatory	Yes
Service Platform and Infrastructure	Supporting Platforms	Platform Independent		JTA 6.0	Information Processing	Operating System	ISO/IEC 14519:1999, Information technology – POSIX Ada Language Interfaces – Binding for System Application Program Interface (API) – Realtime Extensions.	Mandatory	Yes
Service Platform and Infrastructure	Supporting Platforms	Platform Independent		JTA 6.0	Information Processing	Operating System	ISO/IEC 15287-2:2000, Information technology – Standardized Application Environment Profile – Part 2: Posix Realtime Application Support (AEP).	Emerging	Yes
Service Platform and Infrastructure	Supporting Platforms	Platform Independent		JTA 6.0	Information Processing	Operating System	IEEE 1003.1d:1999, Standard for Information Technology – Portable Operating System Interface (POSIX) Part 1: System Application Program Interface (API) – Amendment d: Additional Realtime Extensions [C Language].	Emerging	Yes
Service Platform and Infrastructure	Supporting Platforms	Platform Independent		JTA 6.0	Information Processing	Operating System	IEEE 1003.1j:2000, Standard for Information Technology – Portable Operating System Interface (POSIX) – Part 1: System Application Program Interface (API) – Amendment j: Advanced Realtime Extensions [C Language].	Emerging	Yes
Service Platform and Infrastructure	Supporting Platforms	Platform Independent		JTA 6.0	Information Processing	Operating System	Potosa (q. Draft Standard for Information Technology – Portable Operating System Interface (POSIX) Part 1: System Application Program Interface (API) – Amendment x: Tracing [C Language], Draft 8, April 2000.	Emerging	Yes
Service Platform and Infrastructure	Supporting Platforms	Platform Independent		JTA 6.0	Information Processing	Operating System	P1003.21, Draft Standard for Information Technology – Portable Operating System Interface (POSIX) – Part 1: Realtime Distributed Systems Communication Application Program Interface (API) [Lanquace-Independent], V3.0, October 1999.	Emerging	Yes
Service Platform and Infrastructure	Supporting Platforms	Platform Independent		JTA 6.0	Information Processing	Operating System	C808, Networking Services (XNS), Issue 5.2, Open Group Technical Standard, ISBN-1-85912-241-8, January 2000.	Emerging	Yes
Service Platform and Infrastructure	Supporting Platforms	Platform Independent		JTA 6.0	Information Processing	Operating System	The Single UNIX Specification, Version 3 (SUS v3), The Open Group.	Emerging	Yes
Service Platform and Infrastructure	Supporting Platforms	Wireless / Mobile	Java 2 Platform, Micro Edition (J2ME) - Sun's Java environment for devices. It promises a relatively portable environment for those using Java for other tiers of the architecture.	FEA TRM					